

APPLICATION FOR
MODIFICATION OF CONSTRUCTION PERMIT INFORMATION
RADIO STATION WSRQ
SARASOTA, FLORIDA

1220 KHZ 770 W-D 15 W-N U ND

August 22, 2016

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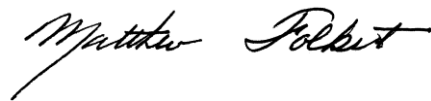
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Item 4	Blanketing
Item 5	Environmental Protection
Item 6	Radiation Efficiency Analysis with Proposed Ground System

Executive Summary - WSRQ

This engineering exhibit supports an application for modification of construction permit of radio station WSRQ in Sarasota, Florida. WSRQ is presently licensed to operate unlimited on 1220 kilohertz with 1 kilowatt day and secondary 159 watts night, utilizing the same directional antenna, day and night. WSRQ has been issued a construction permit(BP-20150120AIX) to relocate to a new site to operate unlimited on 1220 kilohertz with 1 kilowatt day and secondary 4 watts night, utilizing the same directional antenna, day and night. By means of this present application, the licensee proposes to modify the existing construction permit as a minor change to relocate to a new site to use an existing tower for non-directional operation. The proposed daytime power will be 770 watts and the secondary nighttime power will be 15 watts. The daytime and nighttime services are proposed from the same site.

The proposal is classified as a minor change according to 47 CFR 73.3571(a)(2). As a Class D station operating on one of the channels listed in 73.25(c), the proposal satisfies 47 CFR 73.21(a)(3) which permits operation with a nominal power of not less than 0.25 kilowatt nor more than 50 kilowatt at any time.

The Federal Aviation Administration has not been notified of the proposal as new tower construction is not proposed.



Matthew Folkert

August 22, 2016

Broadcast Facility - WSRQ

The proposed facility complies with the engineering standards and assignment requirements of 47 C.F.R. Sections 73.24(e), 73.24(g), 73.33, 73.45, 73.160, 73.182, 73.189 and 73.1650. Information included herein demonstrates compliance with all relevant requirements. The technical equipment proposed, the location of the transmitter, and other technical phases of operation comply with the regulations governing the same, and the requirements of good engineering practice.

Proposed Transmitter Location

The location of the proposed WSRQ facility will be located at NAD27 coordinates:

27-19-26 North
82-29-46 West

The tower will be utilized for both the daytime and nighttime non-directional patterns.

Ground System

The proposed ground system at the transmitter site will consist of 120 equally-spaced copper wire radials extending to an average length of 21.7 meters (71 feet). The radials will be buried underground and bonded to a copper strap around the perimeter of the building at the site. The radiation efficiency analysis of the proposed ground system is presented in Item 6.

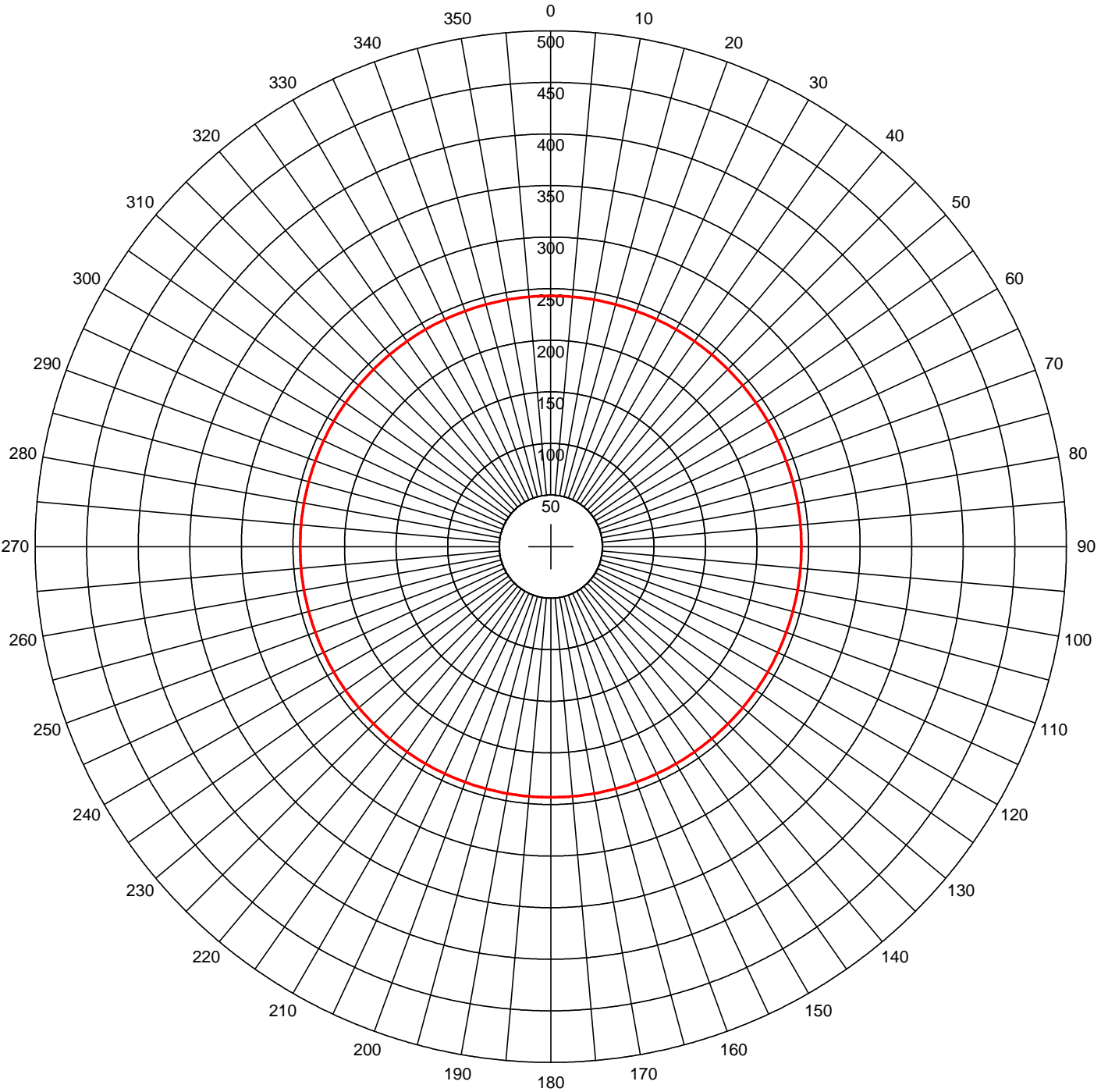
Proposed Non-Directional Antenna Tower

The radiating element for the proposed tower will be 56.3 meters (185 feet) in height and the overall height will be 57.9 meters (190 feet) in height above ground level. As a result, the electrical length is 82.5 degrees with a calculated unattenuated effective field of 276.9 mV/m at one kilometer for one kilowatt. The tower base will be grounded and it will be slant wire shunt fed.

Proposed Non-Directional Antenna Pattern

A polar graph of the proposed non-directional horizontal plane standard radiation patterns appear on the following page.

AM Daytime Non-Directional Pattern



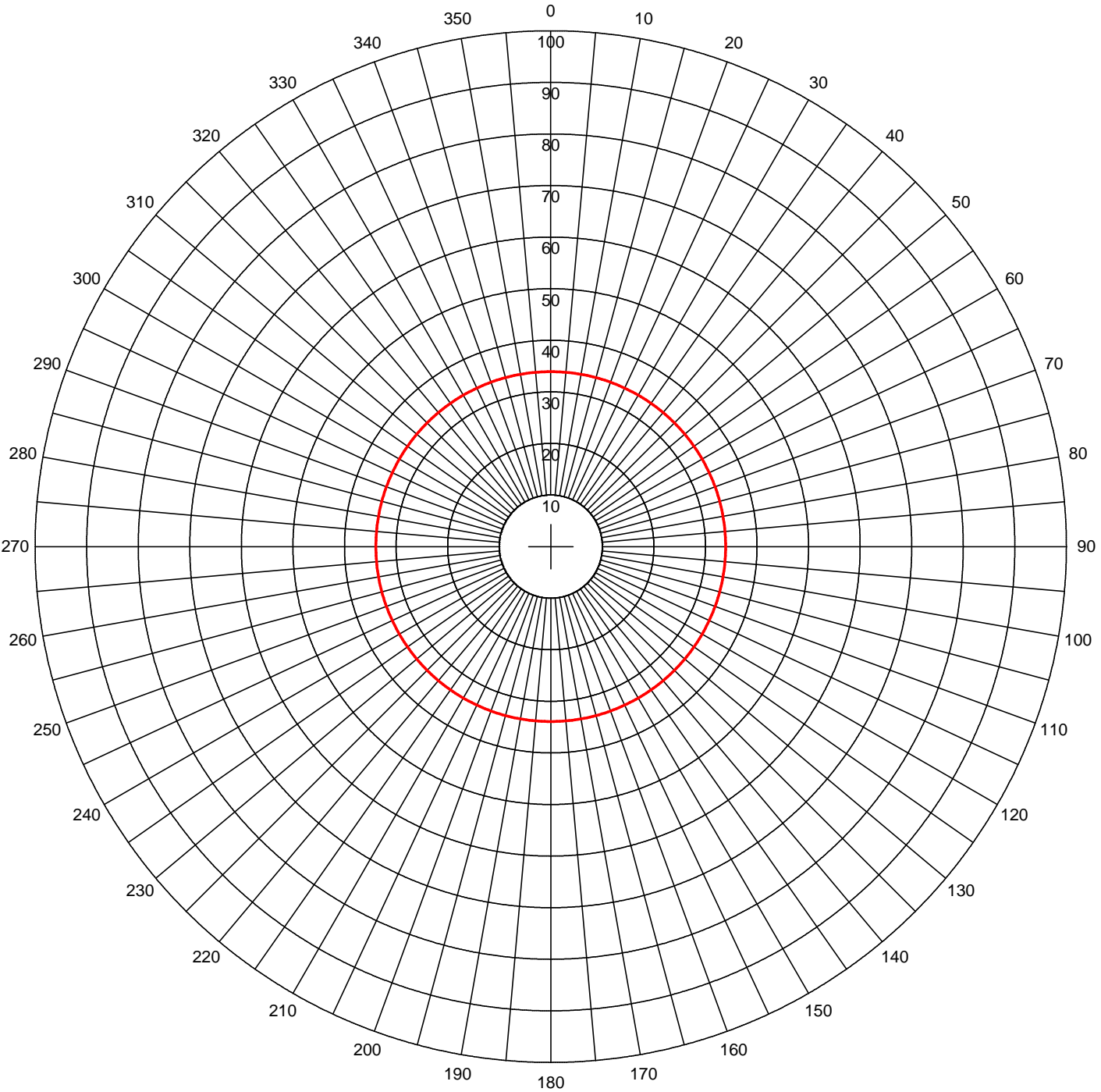
Erss = 242.98 mV/m@1km
Theo RMS: 242.979 mV/m@1km

Theoretical Horizontal Plane Pattern

— Pattern (mV/m @ 1km)
— Pattern X10

#	Field Ratio	Phase (deg)	Spacing (deg)	Orient (deg)	Height (deg)	Ref Switch	TL Switch	A (deg)	B (deg)	C (deg)	D (deg)	Call: WSRQ Freq: 1220 kHz SARASOTA, FL, US Hours: D Lat: 27-19-26 N Lng: 082-29-46 W Power: 0.77 kW Theo RMS: 276.90 mV/m@1km
1	1.000	0.0	0.0	0.0	82.5	0	0	0.0	0.0	0.0	0.0	

AM Nighttime Non-Directional Pattern



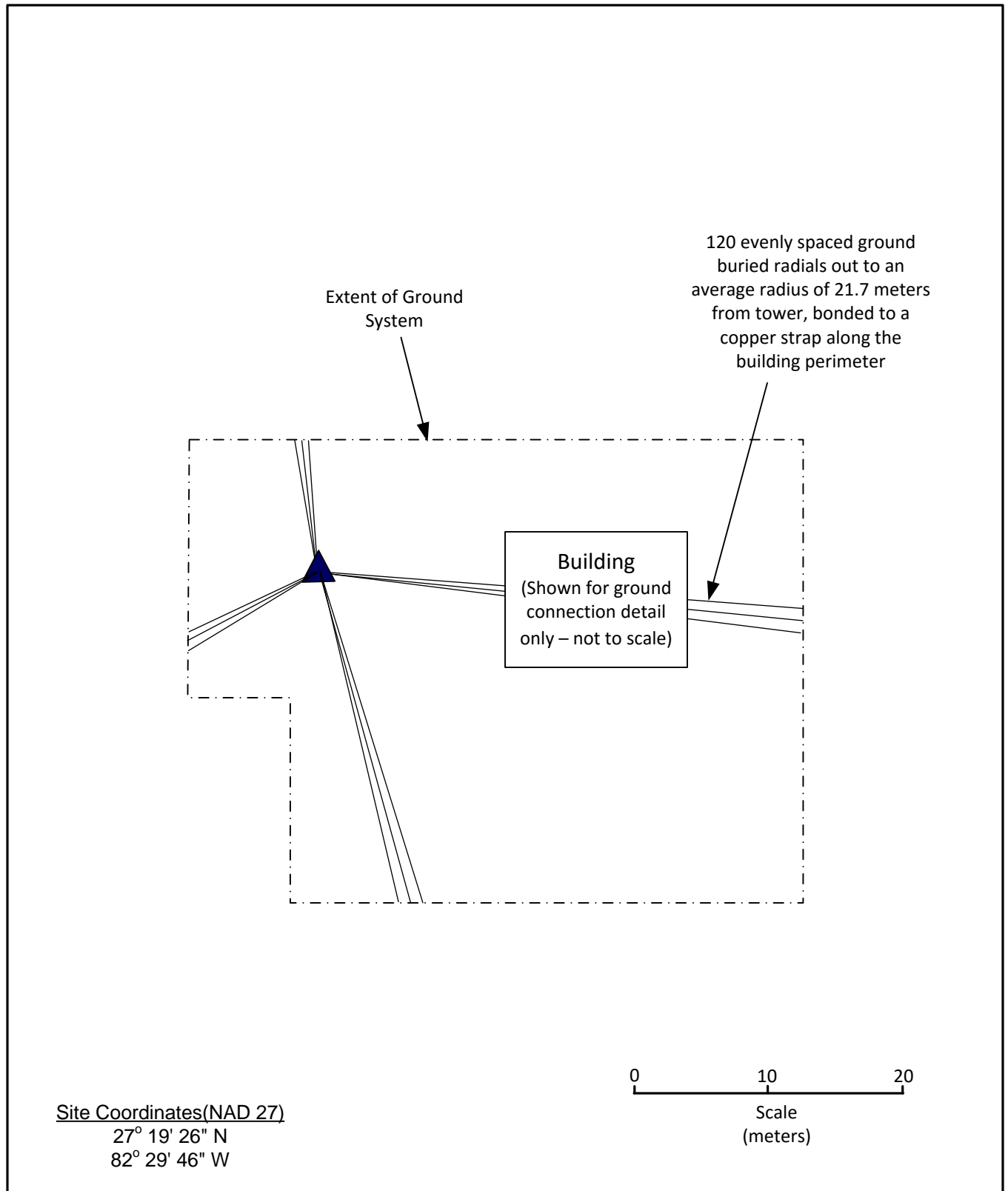
Erss = 33.91 mV/m@1km
Theo RMS: 33.913 mV/m@1km

Theoretical Horizontal Plane Pattern

— Pattern (mV/m @ 1km)
— Pattern X10

#	Field Ratio	Phase (deg)	Spacing (deg)	Orient (deg)	Height (deg)	Ref Switch	TL Switch	A (deg)	B (deg)	C (deg)	D (deg)
1	1.000	0.0	0.0	0.0	82.5	0	0	0.0	0.0	0.0	0.0

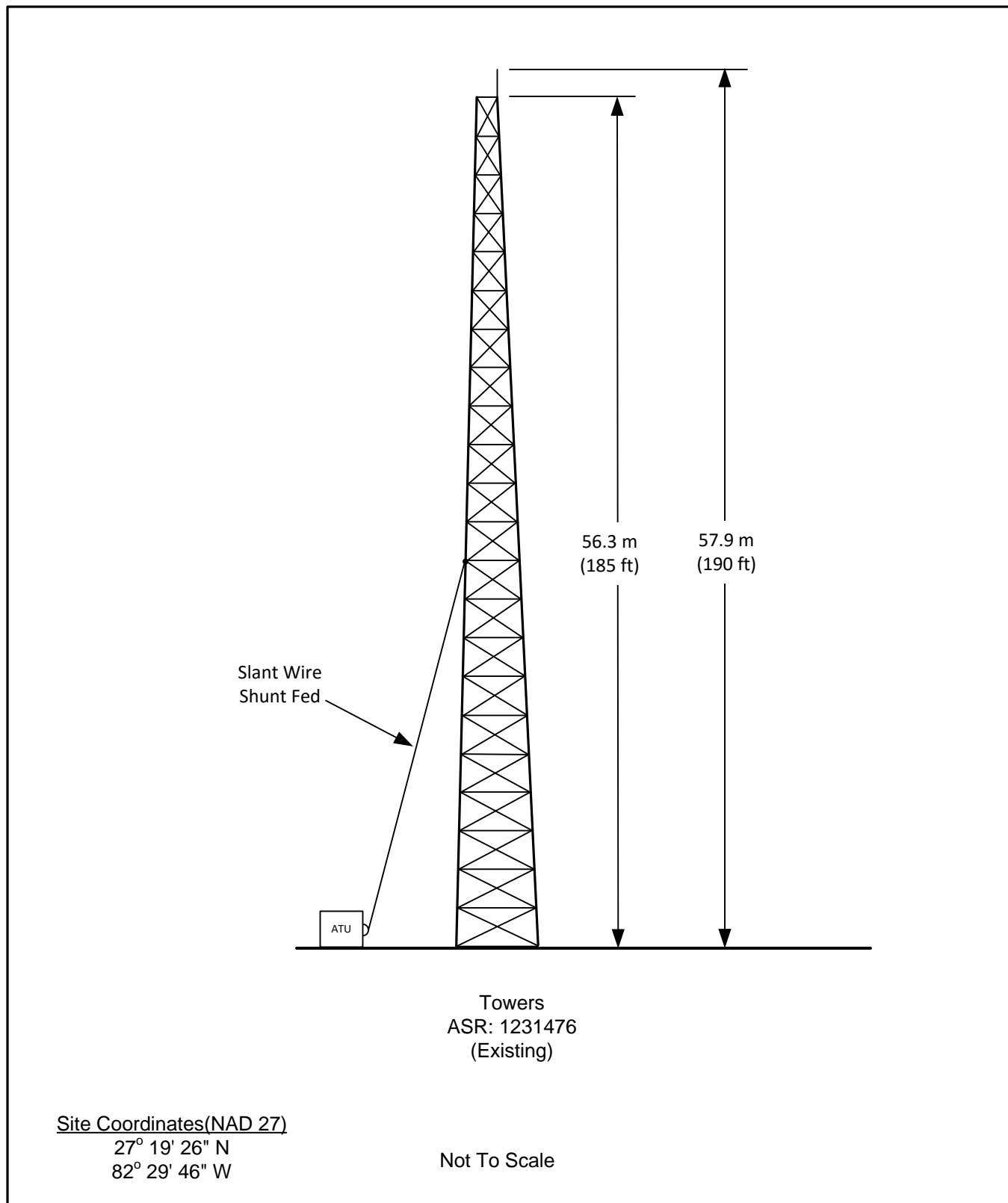
Call: WSRQ
Freq: 1220 kHz
SARASOTA, FL, US
Hours: N
Lat: 27-19-26 N
Lng: 082-29-46 W
Power: 0.015 kW
Theo RMS: 276.90 mV/m@1km



ANTENNA SITE PLAT

RADIO STATION WSRQ
SARASOTA, FLORIDA
1220 KHZ 770 W-D 15 W-N U ND

du Treil, Lundin & Rackley, Inc. Sarasota, Florida



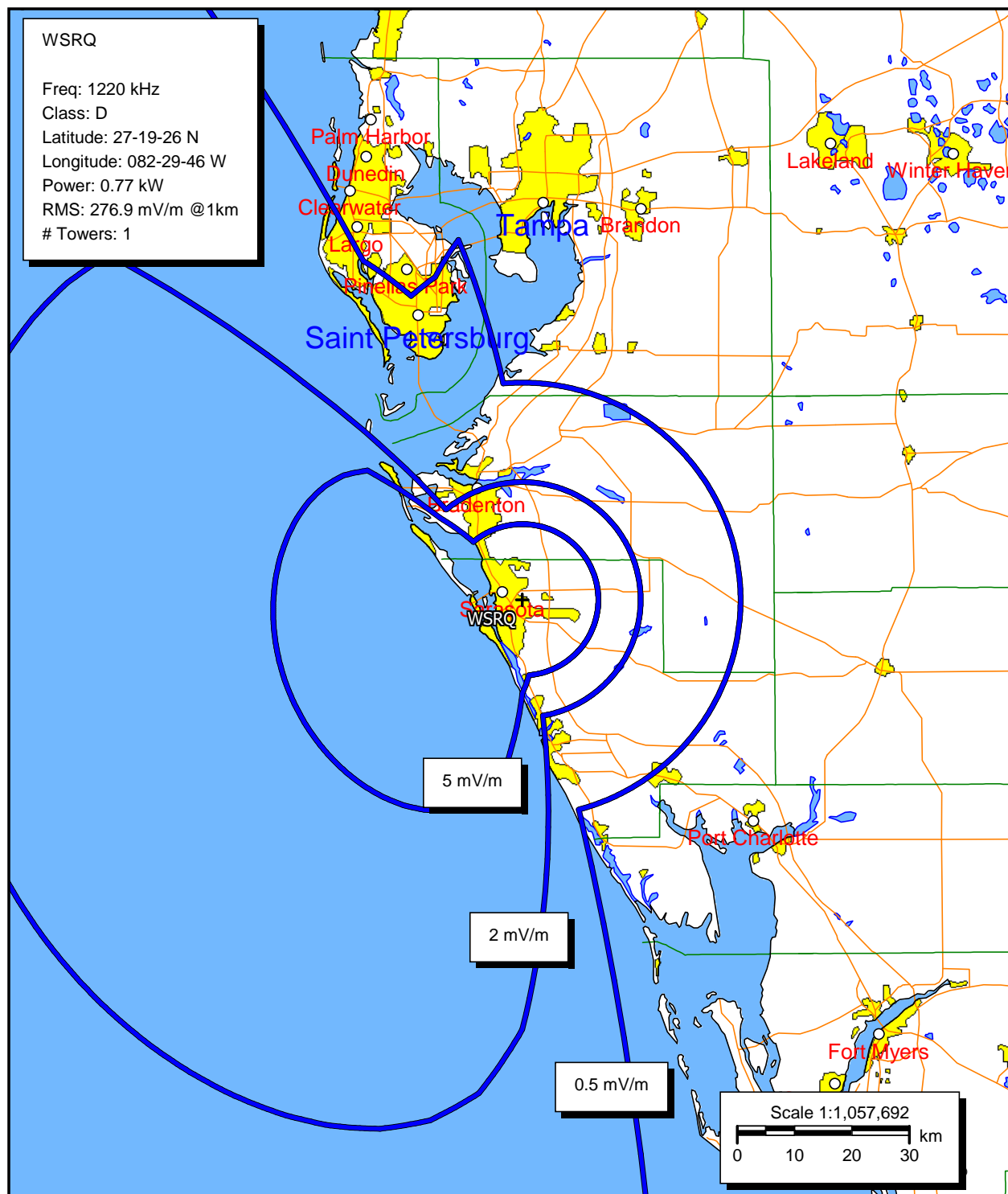
SKETCH OF ANTENNA ELEMENT

RADIO STATION WSRQ
SARASOTA, FLORIDA
1220 KHZ 770 W-D 15 W-N U ND

du Treil, Lundin & Rackley, Inc. Sarasota, Florida

Principal Community Coverage and Service Contours - WSRQ

The proposed facility complies with the community coverage requirements of 47 C.F.R. Section 73.24(i). The daytime 5 mV/m contour encompasses the entire principal community to be served. Maps showing the proposed and existing daytime field strength service contours appear on the following pages.



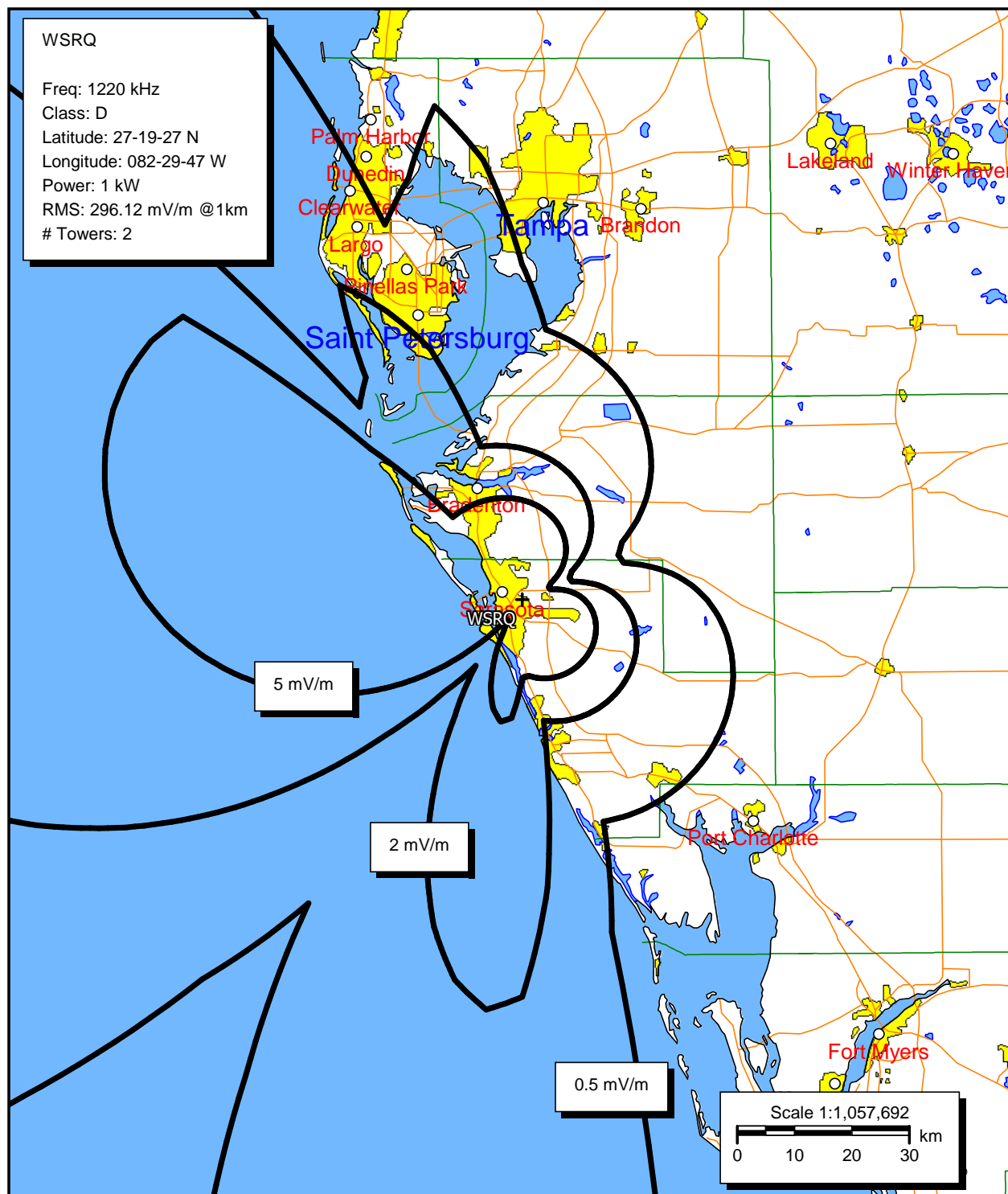
PROPOSED DAYTIME COVERAGE CONTOURS

RADIO STATION WSRQ

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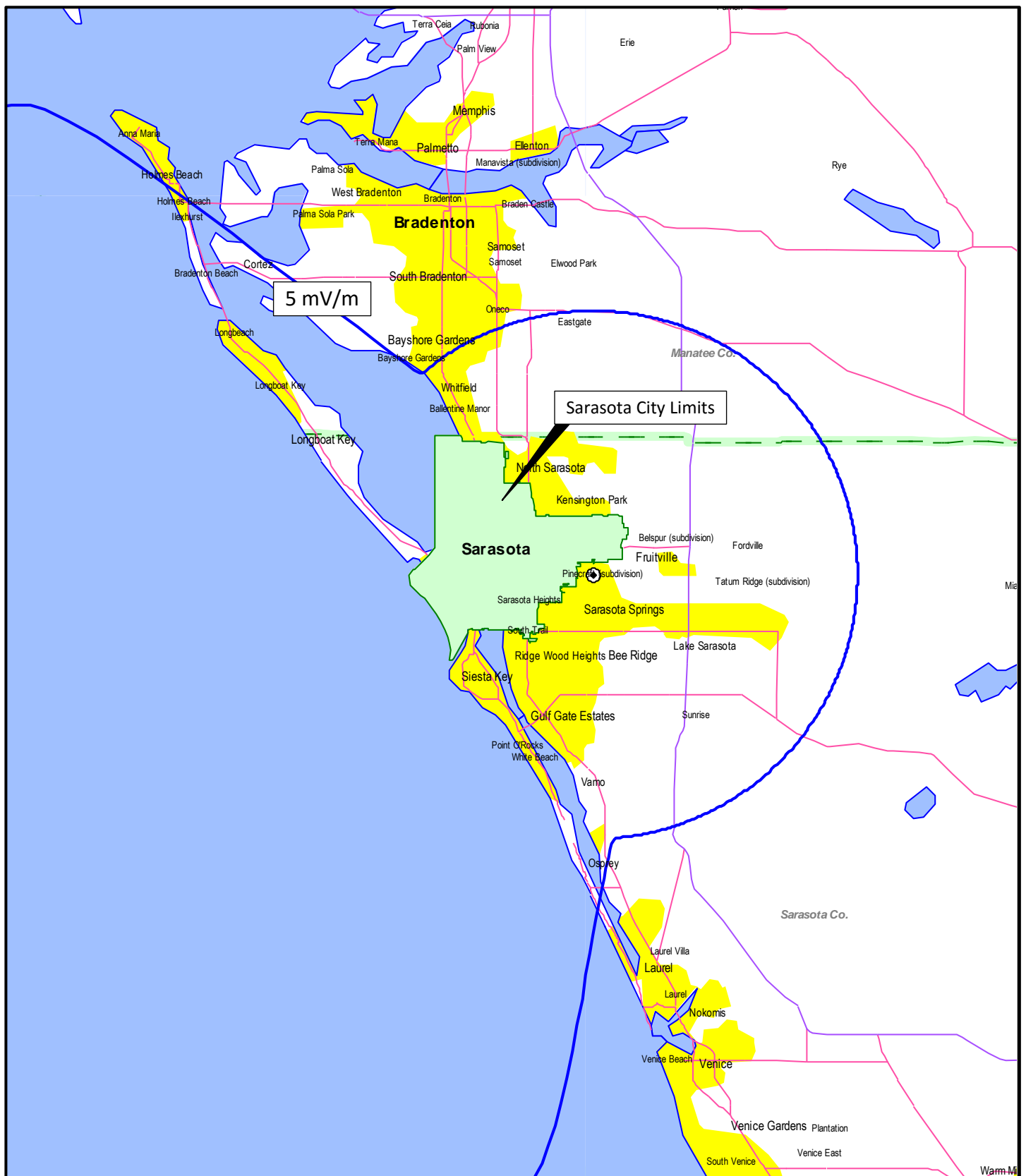
EXISTING DAYTIME COVERAGE CONTOURS

RADIO STATION WSRQ

SARASOTA, FLORIDA

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CITY OF LICENSE COVERAGE

RADIO STATION WSRQ

SARASOTA, FLORIDA

1220 KHZ 770 W-D 15 W-N U ND

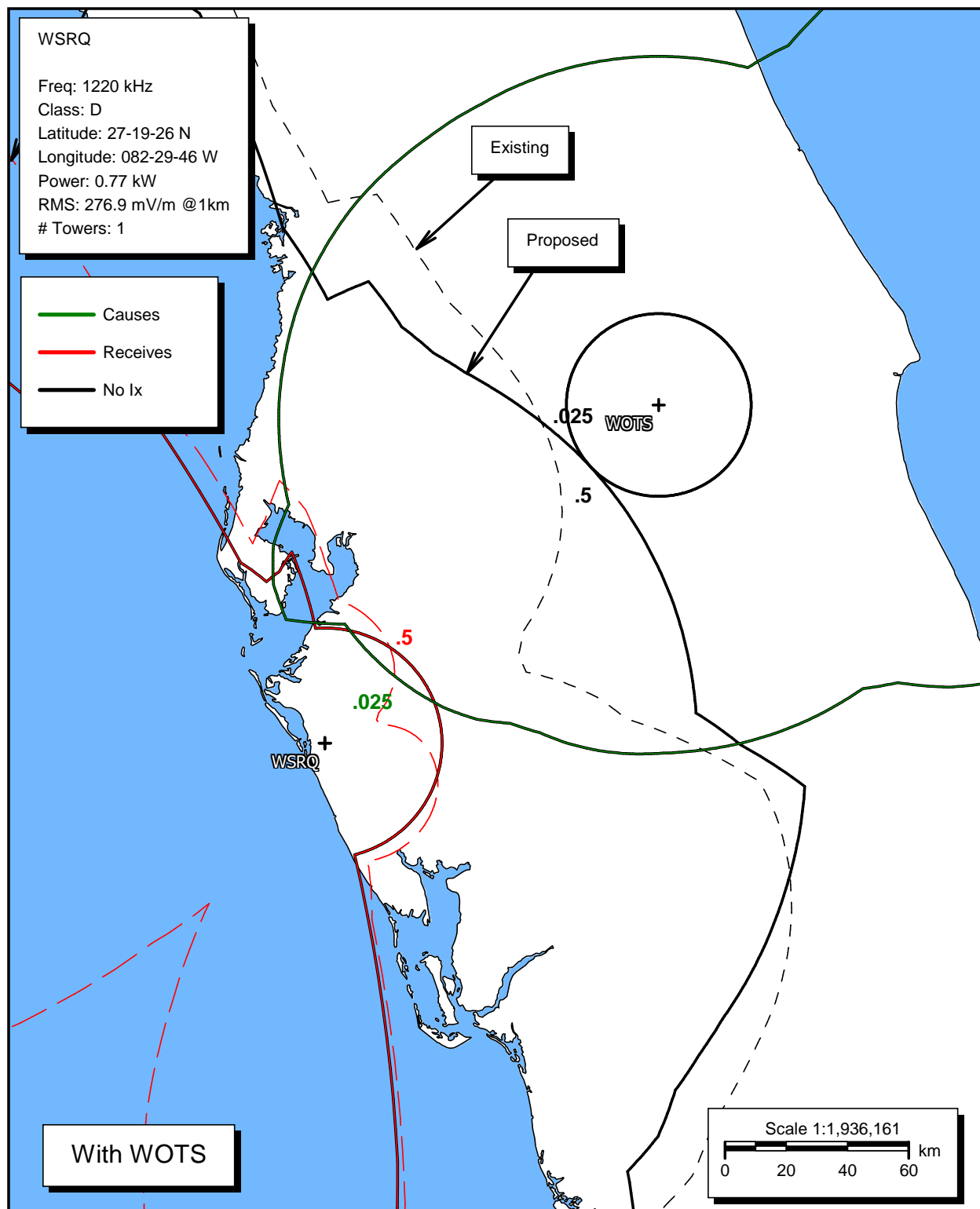
du Treil, Lundin & Rackley, Inc. Sarasota, Florida

Allocation Requirements - WSRQ

The proposed facility complies with the requirements of 47 C.F.R. Section 73.37 and 73.182. The proposed operation does not involve overlap of signal strength contours with other stations where there is not already such overlap. A daytime allocation study was made utilizing FCC M3 conductivities. A nighttime allocation study shows protection to all stations and international allotments operating on the co-channel and adjacent channel frequencies. The following figures support a conclusion that this proposal comports with all interference protection requirements.

Allocation Study Data

Maps showing the field strength contours requiring study and tabulations of pertinent data regarding the daytime and nighttime studies appear on the following pages.



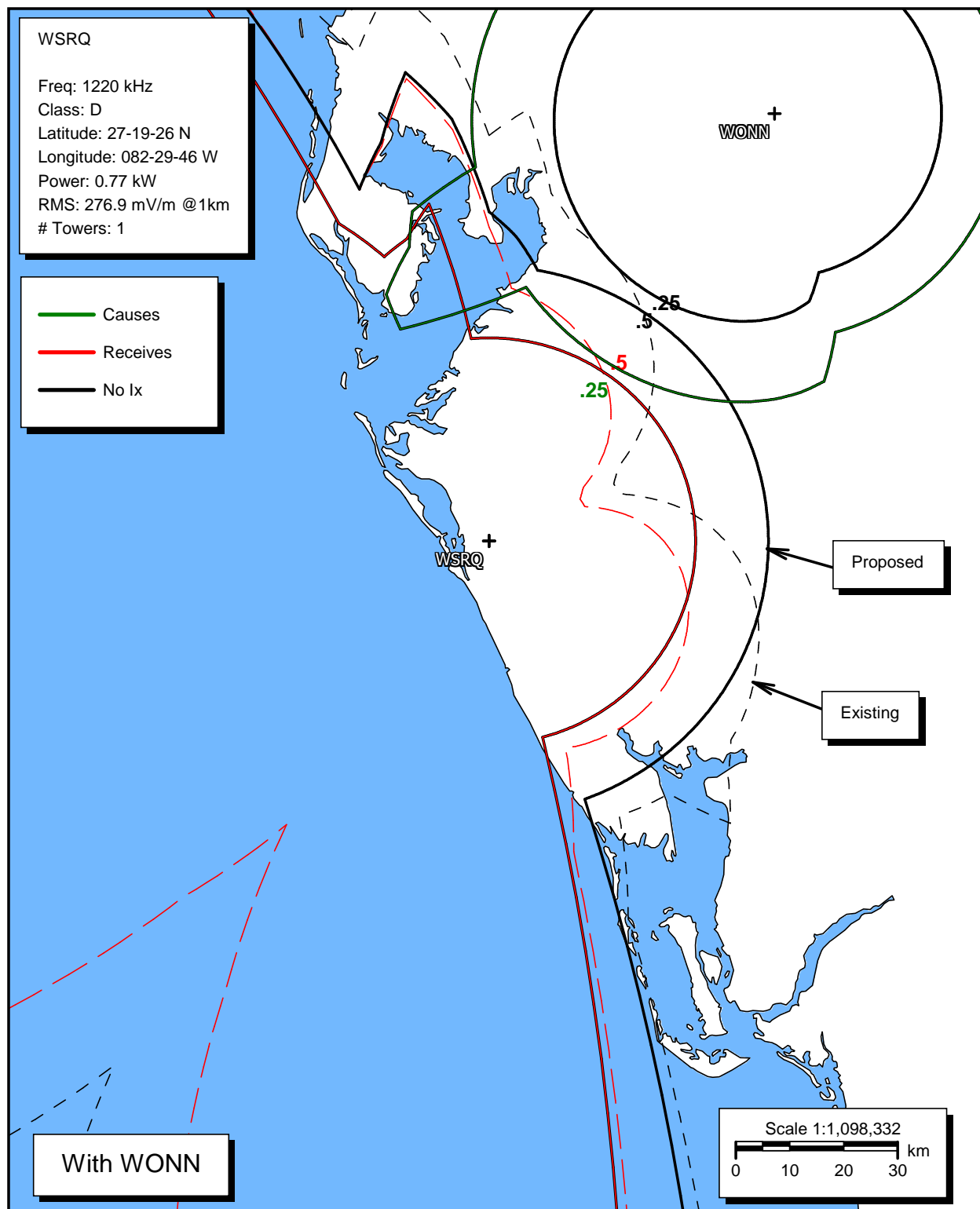
DAYTIME ALLOCATION STUDY

RADIO STATION WSRQ

SARASOTA, FLORIDA

1220 KHZ 770 W-D 15 W-N U ND

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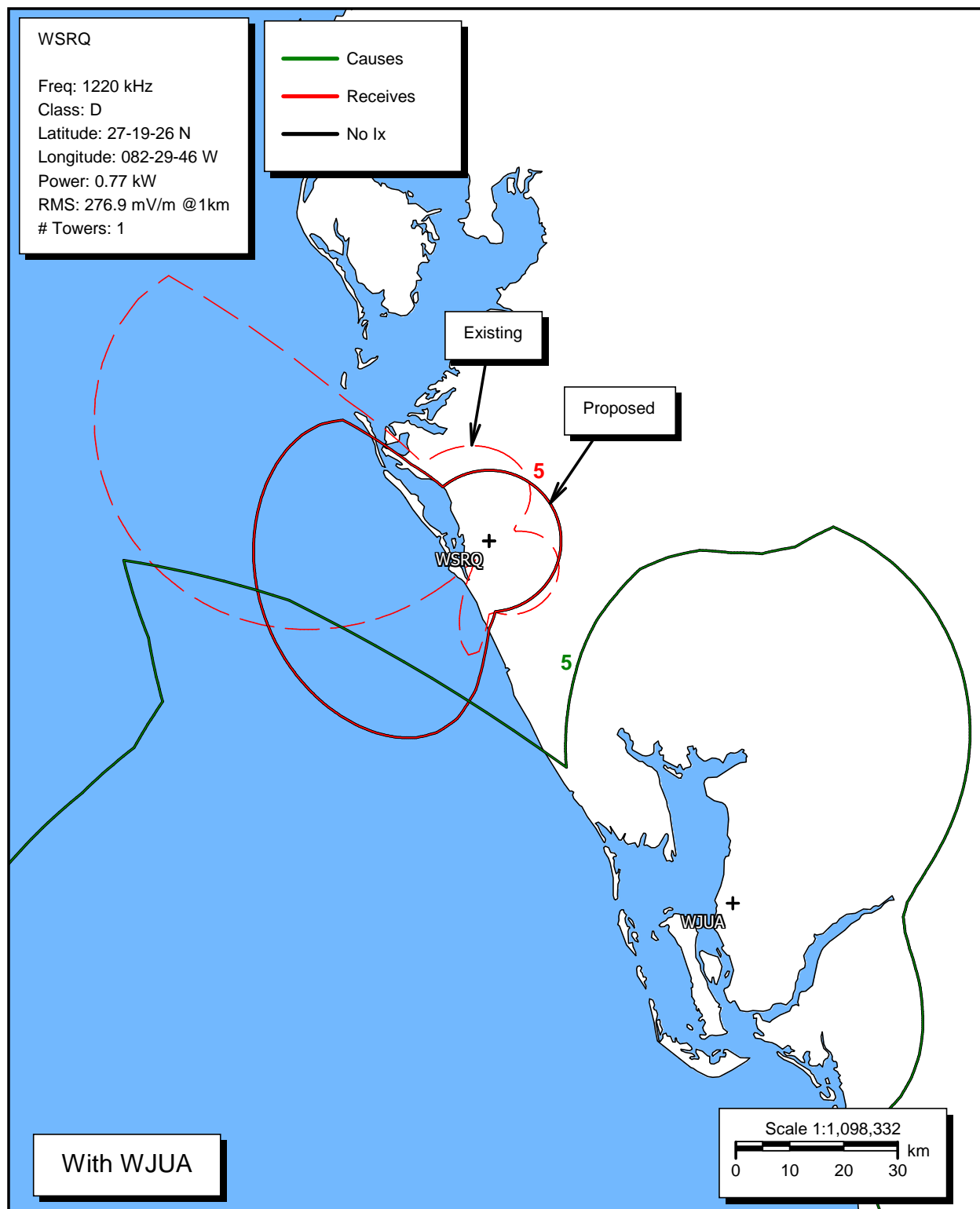
DAYTIME ALLOCATION STUDY

RADIO STATION WSRQ

SARASOTA, FLORIDA

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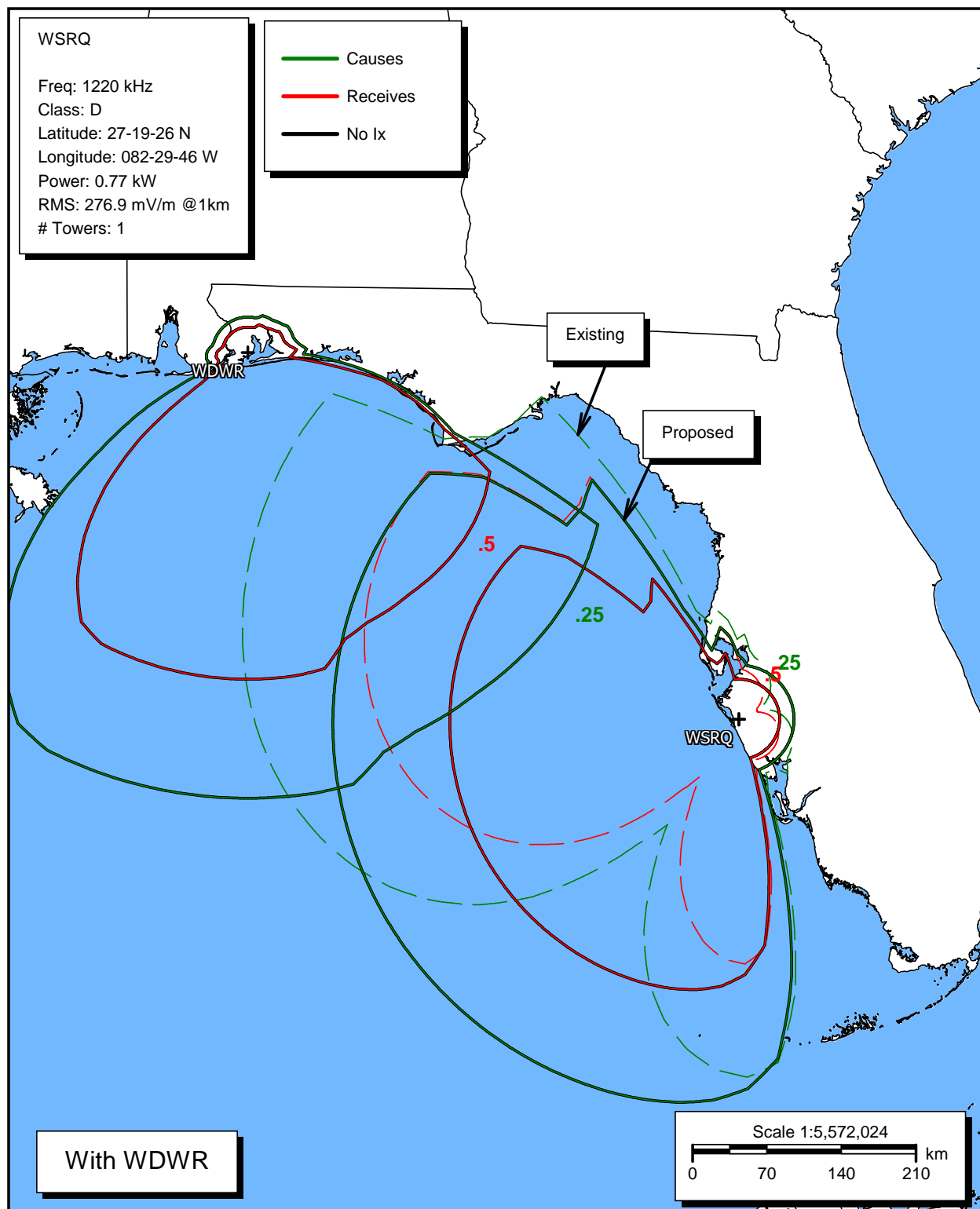
DAYTIME ALLOCATION STUDY

RADIO STATION WSRQ

SARASOTA, FLORIDA

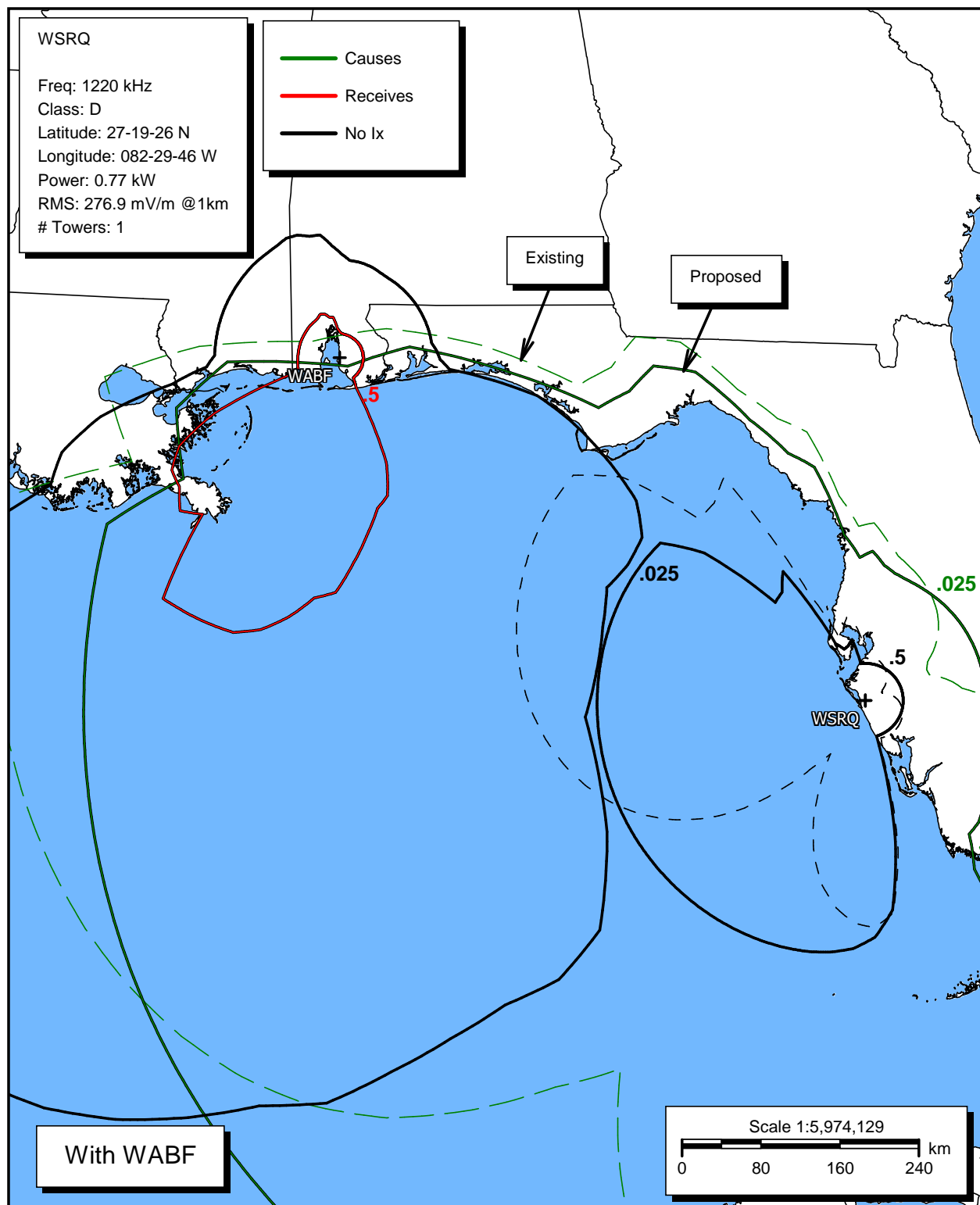
1220 KHZ 770 W-D 15 W-N U ND

du Treil, Lundin & Rackley, Inc. Sarasota, Florida



DAYTIME ALLOCATION STUDY
RADIO STATION WSRQ
SARASOTA, FLORIDA
1220 KHZ 770 W-D 15 W-N U ND

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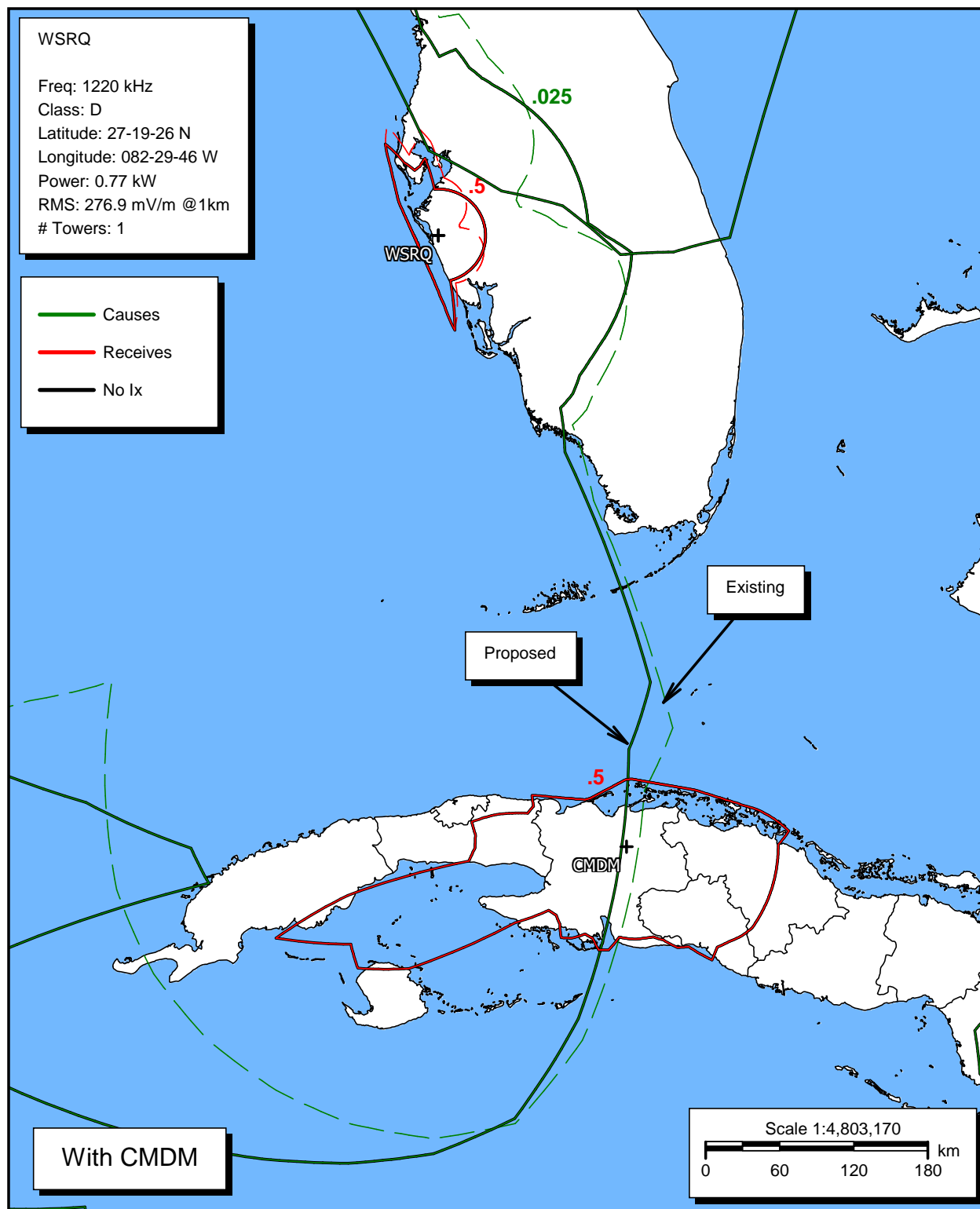
DAYTIME ALLOCATION STUDY

RADIO STATION WSRQ

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DAYTIME ALLOCATION STUDY

RADIO STATION WSRQ

SARASOTA, FLORIDA

1220 KHZ 770 W-D 15 W-N U ND

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Tabulation of Data Employed in the Calculation of Groundwave Contours

Reference Station: WSRQ, 1220 kHz

Location: 27-19-26 N, 082-29-46 W

1200 kHz

81.0 km WJUA L 26-42-52 N 082-02-46 W 50.0 kW DA2 - 2093.0 mV/m@1km
50.3 mi Azi: 146.6 Class: B Sched: U File #: BMML20120410AEI
Location: PINE ISLAND CENTER, FL, US

1220 kHz

155.1 km WOTS L 28-19-27 N 081-23-44 W 1.0 kW NDD - 305.8 mV/m@1km
96.3 mi Azi: 44.6 Class: D Sched: U File #: BL19971117KD
Location: KISSIMMEE, FL, US

522.9 km CMDM 22-48-00 N 081-01-00 W 10.0 kW ND1 - 336.6 mV/m@1km
324.9 mi Azi: 163.7 Class: B Sched: U File #:
Location: C ESPANA, , CU

634.5 km WABF L 30-30-39 N 087-54-13 W 1.0 kW ND1 - 305.3 mV/m@1km
394.3 mi Azi: 302.5 Class: D Sched: U File #: BL20020114ABF
Location: FAIRHOPE, AL, US

1230 kHz

95.3 km WONN L 28-02-23 N 081-57-39 W 1.0 kW ND1 - 321.9 mV/m@1km
59.2 mi Azi: 33.8 Class: C Sched: U File #: BL
Location: LAKELAND, FL, US

575.2 km WDWR L 30-25-57 N 087-13-07 W 1.0 kW ND2 - 317.0 mV/m@1km
357.4 mi Azi: 305.6 Class: C Sched: U File #: BML20111118CTL
Location: PENSACOLA, FL, US

Nighttime Allocation Study

Night Allocation Protection Report

Call: WSRQ
 Freq: 1220 kHz
 SARASOTA, FL, US
 Hours: N
 Lat: 27-19-26 N
 Lng: 082-29-46 W
 Power: 0.015 kW
 Theo RMS: 276.90 mV/m @ 1km @ 1kW

#	Field Ratio	Phase (deg)	Spacing (deg)	Orient (deg)	Height (deg)	Ref Switch	TL Switch	A (deg)	B (deg)	C (deg)	D (deg)
1	1.000	0.0	0.0	0.0	82.5	0	0	0.0	0.0	0.0	0.0

Call Letters	Ct	St	City	SWFF (100uV/m)	Req Prot (mV/m)	Permis (mV/m)	Cur Rad (mV/m)	Margin (mV/m)
XEB/A (80)	MX	DF	SAN LORENZO TEZ	84.20	0.573	34.02s	33.01	1.01
XEB/O (80)	MX	DF	SAN LORENZO TEZ	83.87	0.619	36.92s	33.03	3.90
XEB1/O (80)	MX	DF	SAN LORENZO TEZ	83.87	0.649	38.71s	33.03	5.68
CMDM-D	CU	C	ESPANA	48.22	1.882	195.19	31.44	163.75
50% = 3.765, 25% = 4.555; XEB/A=3.76 HJAV-A=1.50 HJFV-A=1.50 YVAP-A=1.43								
WHKW	US	OH	CLEVELAND	20.90	1.843	440.87	33.89	406.98
50% = 7.108, 25% = 7.372; XEB/A=5.66 WPHT=4.30 ZYJ-458-A=1.96								
WNMA	US	FL	MIAMI SPRINGS	244.10	2.937	601.62	28.73	572.89
50% = 10.726, 25% = 11.748; WPHT=10.73 HJBE-A=3.60 HJFF-A=3.17								
WLPO	US	IL	LASALLE	18.55	2.832	763.15	33.90	729.25
50% = 10.939, 25% = 11.327; WHKW=8.22 XEB/A=7.22 KLBB=2.94								
WPHT (180)	US	PA	PHILADELPHIA	25.51	0.500	980.06G	33.86	946.20
KLBB	US	MN	STILLWATER	10.44	2.993	1433.38	33.91	1399.46
50% = 9.232, 25% = 11.971; WLPO=5.71 XEB/A=5.58 WHKW=4.64 CJRL/A=4.38 KDDR=3.88 CJRB/ =3.64 C122C/A=3.25								
KDDR	US	ND	OAKES	7.65	2.577	1684.74	33.91	1650.83
50% = 9.702, 25% = 10.309; CJRB/ =6.42 XEB/A=5.31 CJRL/A=4.98 KLBB=3.49								
HRRD 4-B	HO		GUALACO	12.40	4.482	1806.88	33.77	1773.12
50% = 8.964, 25% = 9.712; XEB/A=8.96 HJAV-A=2.87 XESCRT/A=2.40								
HIN-C	DR	S	DOMINGO 6	20.00	7.903	1975.54	33.89	1941.65
50% = 17.371, 25% = 19.77; YVAP-A=13.26 HJFV-A=7.96 YVRD-A=7.90 HJAV-A=7.35 HJMT-A=5.92								
WQUN	US	CT	HAMDEN	16.04	6.697	2087.80	33.91	2053.89
50% = 24.286, 25% = 26.79; WHKW=21.44 CKSM/A=11.40 CJUL/A=8.66 WPHT=7.28								
KTMZ	US	CA	POMONA	5.14	2.457	2390.10	33.91	2356.19
50% = 9.829, 25% = 9.829; XEB/A=9.83								

Blanketing - WSRQ

The provisions of 47 CFR 73.24(g) require that the population within the 1,000 mV/m contour not exceed 300 persons. At the proposed location the respective proposed 1,000 mV/m contours encompasses no more than 77 persons during daytime or nighttime hours. Thus, the requirements of 47 CFR 73.24(g) are met.

WSRQ

Freq: 1220 kHz

Class: D

Latitude: 27-19-26 N

Longitude: 082-29-46 W

Power: 0.76 kW

RMS: 276.9 mV/m @1km

Towers: 1

Daytime 1000 mV/m
Population: 77

WSRQ⁺

Scale 1:7,312

0 0.1 0.2 0.3 km

PROPOSED DAYTIME BLANKET CONTOUR

RADIO STATION WSRQ

SARASOTA, FLORIDA

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du Treil, Lundin & Rackley, Inc. Sarasota, Florida

Environmental Protection - WSRQ

The proposed facility will comply with the maximum permissible radiofrequency electromagnetic exposure limits for controlled and uncontrolled environments.

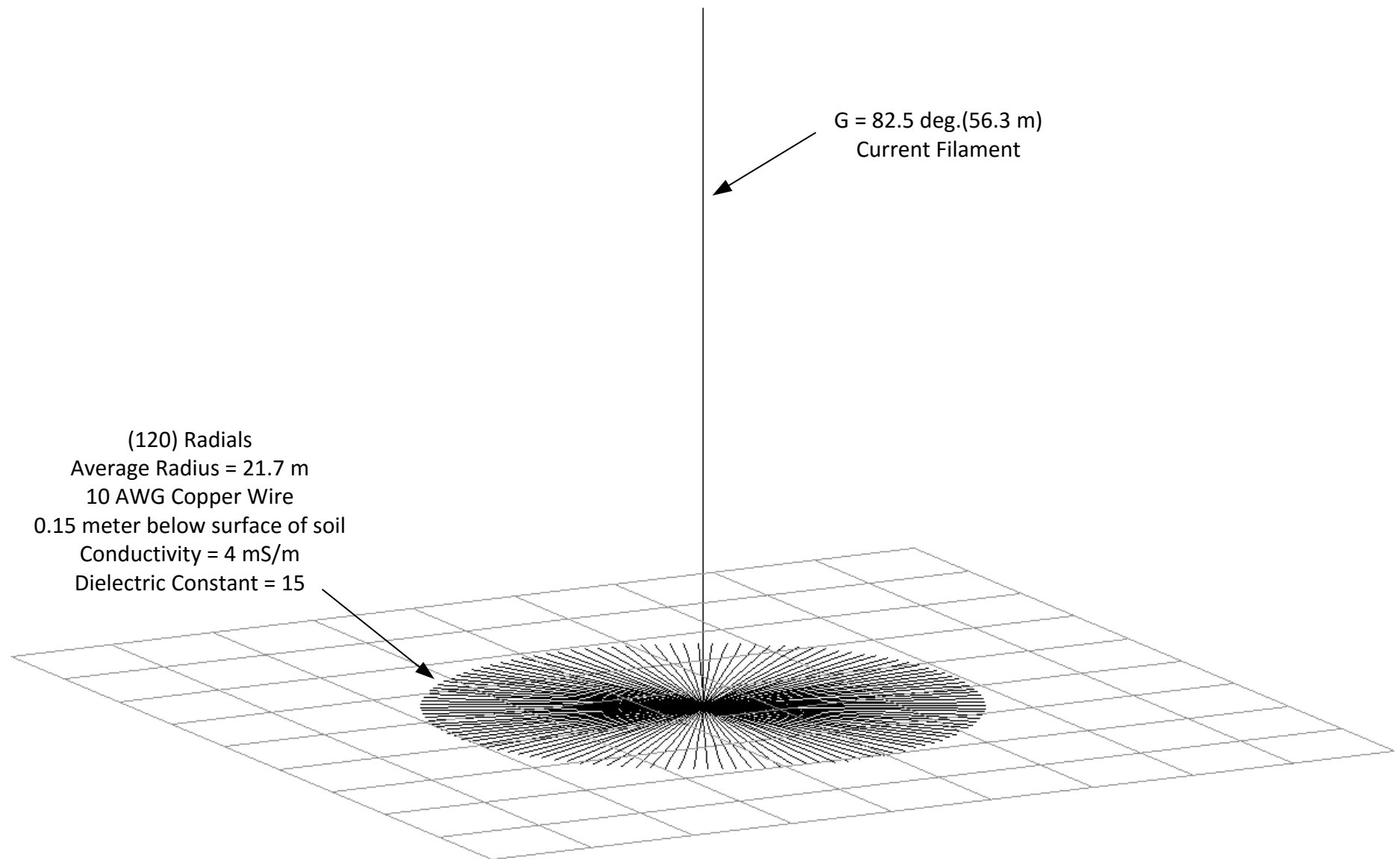
The proposed operation will be evaluated in terms of both the electric and magnetic field components which will be present at the base of the tower. Using Figures 1 through 4 of Supplement A to OET Bulletin 65, the worst case interpolated distances at which the electric and magnetic fields would fall below ANSI guidelines will be calculated before construction. The area surrounding the base of the tower will be appropriately restricted with the boundary of the fence having the required minimum radius unless field measurement data indicates otherwise. The restricted area will assure that persons on the property on ground level will not be exposed to radiofrequency field levels in excess of those recommended by the ANSI. In addition, warning signs will be posted.

Radiation Efficiency Analysis with Proposed Ground System - WSRQ

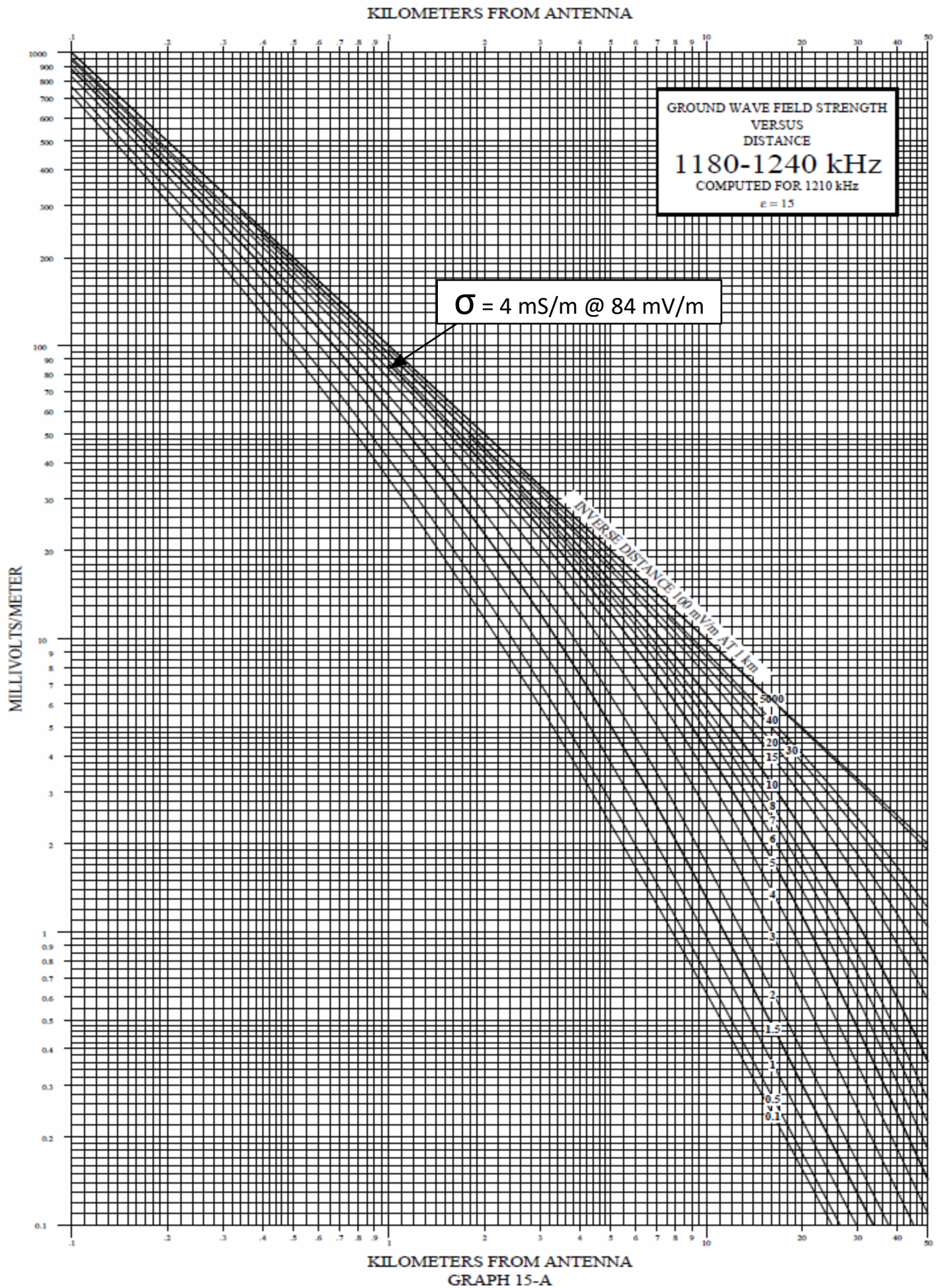
The area near the base of the proposed tower that is available for the installation of a ground system is shown on the Site Plat. Its dimensions equates to an average radial length of 21.7 meters or 0.088 wavelength at 1220 kilohertz. When the average radial length of a 120 wire ground system is less than 0.2401 wavelength, but greater than or equal to 0.1501 wavelength, amounts of efficiency correction are specified in the first table of the FCC document "AM Ground System Correction Factors for Nondirectional AM Stations." As no amount of efficiency correction is specified for an average ground radial length of 0.088 wavelength, Method of Moments modeling was used to predict the radiation efficiency of the proposed antenna. Such modeling represents the present state-of-the-art for calculating antenna radiation characteristics. Modern research and experience indicate that Method of Moments predictions match "real-world" conditions closely.

The NEC-4 software package was used for the Method of Moments modeling, as it solves for antenna field strength taking into account ground losses based upon the type of ground radial conductor as well as the ground conductivity and dielectric constant of the soil surrounding the antenna. Following established practices for antenna radiation analysis, the portion of the antenna above ground level was modeled as a vertical current filament. The ground system conductors were modeled as number 10 AWG copper wires embedded at a depth of 0.15 meter (six inches rounded to the nearest inch) in soil having the FCC Figure M-3 conductivity for the area, 4 mS/m. A relative dielectric constant of 15 was assumed, as specified for field strength calculations by 47 CFR Section 73.184(a). The field strength value at ground level was calculated at a height of 0.1 meter above the ground surface. As the model takes into account all ground losses, no lumped loss resistance was assumed in the calculations. The details of the model are provided on the following pages.

The nondirectional vertically polarized field at one kilometer, calculated for 1,000 watts antenna input power over the assumed soil, was 328.9 mV/m peak - or 232.6 mV/m RMS. For a reference unattenuated field of 100 mV/m at one kilometer, the field strength at that distance over ground with a conductivity of 4 mS/m and a dielectric constant of 15 is 84 mV/m - as noted on the field strength versus distance graph that appears in the following pages. At one kilometer over the assumed soil, attenuation reduces the field strength to 0.84 times its unattenuated value. To convert the calculated attenuated field strength at one kilometer to its unattenuated value, the required calculation shows that $232.6/0.84 = 276.9$ mV/m rounded to the nearest 0.1 mV/m



WSRQ Wire Model



CM WSRQ - 1220 kHz
CM 120 Radials 10 GA copper wire buried @ 15 cm
depth
CM G = 56.3 m(185 feet/82.5 deg)
CM Dielectric Constant = 15
CM Conductivity = 4 mS/m
CM Average Radial Length = 21.7 m
CE
GW 1 10 0 0 0 0 0 56.3 0.001294
GW 2 1 0 0 0 0 0 -0.15 0.001294
GW 3 5 0 0 -0.15 21.7 0 -0.15 0.001294
GW 4 5 0 0 -0.15 21.67 1.14 -0.15 0.001294
GW 5 5 0 0 -0.15 21.58 2.27 -0.15 0.001294
GW 6 5 0 0 -0.15 21.43 3.39 -0.15 0.001294
GW 7 5 0 0 -0.15 21.23 4.51 -0.15 0.001294
GW 8 5 0 0 -0.15 20.96 5.62 -0.15 0.001294
GW 9 5 0 0 -0.15 20.64 6.71 -0.15 0.001294
GW 10 5 0 0 -0.15 20.26 7.78 -0.15 0.001294
GW 11 5 0 0 -0.15 19.82 8.83 -0.15 0.001294
GW 12 5 0 0 -0.15 19.33 9.85 -0.15 0.001294
GW 13 5 0 0 -0.15 18.79 10.85 -0.15 0.001294
GW 14 5 0 0 -0.15 18.2 11.82 -0.15 0.001294
GW 15 5 0 0 -0.15 17.56 12.75 -0.15 0.001294
GW 16 5 0 0 -0.15 16.86 13.66 -0.15 0.001294
GW 17 5 0 0 -0.15 16.13 14.52 -0.15 0.001294
GW 18 5 0 0 -0.15 15.34 15.34 -0.15 0.001294
GW 19 5 0 0 -0.15 14.52 16.13 -0.15 0.001294
GW 20 5 0 0 -0.15 13.66 16.86 -0.15 0.001294
GW 21 5 0 0 -0.15 12.75 17.56 -0.15 0.001294
GW 22 5 0 0 -0.15 11.82 18.2 -0.15 0.001294
GW 23 5 0 0 -0.15 10.85 18.79 -0.15 0.001294
GW 24 5 0 0 -0.15 9.85 19.33 -0.15 0.001294
GW 25 5 0 0 -0.15 8.83 19.82 -0.15 0.001294
GW 26 5 0 0 -0.15 7.78 20.26 -0.15 0.001294
GW 27 5 0 0 -0.15 6.71 20.64 -0.15 0.001294
GW 28 5 0 0 -0.15 5.62 20.96 -0.15 0.001294
GW 29 5 0 0 -0.15 4.51 21.23 -0.15 0.001294
GW 30 5 0 0 -0.15 3.39 21.43 -0.15 0.001294
GW 31 5 0 0 -0.15 2.27 21.58 -0.15 0.001294
GW 32 5 0 0 -0.15 1.14 21.67 -0.15 0.001294
GW 33 5 0 0 -0.15 0 21.7 -0.15 0.001294
GW 34 5 0 0 -0.15 -1.14 21.67 -0.15 0.001294
GW 35 5 0 0 -0.15 -2.27 21.58 -0.15 0.001294
GW 36 5 0 0 -0.15 -3.39 21.43 -0.15 0.001294
GW 37 5 0 0 -0.15 -4.51 21.23 -0.15 0.001294
GW 38 5 0 0 -0.15 -5.62 20.96 -0.15 0.001294
GW 39 5 0 0 -0.15 -6.71 20.64 -0.15 0.001294
GW 40 5 0 0 -0.15 -7.78 20.26 -0.15 0.001294
GW 41 5 0 0 -0.15 -8.83 19.82 -0.15 0.001294
GW 42 5 0 0 -0.15 -9.85 19.33 -0.15 0.001294
GW 43 5 0 0 -0.15 -10.85 18.79 -0.15 0.001294
GW 44 5 0 0 -0.15 -11.82 18.2 -0.15 0.001294
GW 45 5 0 0 -0.15 -12.75 17.56 -0.15 0.001294
GW 46 5 0 0 -0.15 -13.66 16.86 -0.15 0.001294
GW 47 5 0 0 -0.15 -14.52 16.13 -0.15 0.001294
GW 48 5 0 0 -0.15 -15.34 15.34 -0.15 0.001294
GW 49 5 0 0 -0.15 -16.13 14.52 -0.15 0.001294
GW 50 5 0 0 -0.15 -16.86 13.66 -0.15 0.001294
GW 51 5 0 0 -0.15 -17.56 12.75 -0.15 0.001294
GW 52 5 0 0 -0.15 -18.2 11.82 -0.15 0.001294
GW 53 5 0 0 -0.15 -18.79 10.85 -0.15 0.001294
GW 54 5 0 0 -0.15 -19.33 9.85 -0.15 0.001294
GW 55 5 0 0 -0.15 -19.82 8.83 -0.15 0.001294
GW 56 5 0 0 -0.15 -20.26 7.78 -0.15 0.001294
GW 57 5 0 0 -0.15 -20.64 6.71 -0.15 0.001294

GW 58 5 0 0 -0.15 -20.96 5.62 -0.15 0.001294
GW 59 5 0 0 -0.15 -21.23 4.51 -0.15 0.001294
GW 60 5 0 0 -0.15 -21.43 3.39 -0.15 0.001294
GW 61 5 0 0 -0.15 -21.58 2.27 -0.15 0.001294
GW 62 5 0 0 -0.15 -21.67 1.14 -0.15 0.001294
GW 63 5 0 0 -0.15 -21.7 0 -0.15 0.001294
GW 64 5 0 0 -0.15 -21.67 -1.14 -0.15 0.001294
GW 65 5 0 0 -0.15 -21.58 -2.27 -0.15 0.001294
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GE -1
GN 2 0 0 0 15.0 0.004
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EN

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*
*   NUMERICAL ELECTROMAGNETICS CODE (NEC-4.1)
*   Enhanced version 4.23NA copyright
*   1997-2003 Nittany Scientific
*
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WSRQ - 1220 kHz
120 Radials 10 GA copper wire buried @ 15 cm depth
G = 56.3 m(185 feet/82.5 deg)
Dielectric Constant = 15
Conductivity = 4 mS/m
Average Radial Length = 21.7 m

- - - STRUCTURE SPECIFICATION - - -

COORDINATES MUST BE INPUT IN
METERS OR BE SCALED TO METERS
BEFORE STRUCTURE INPUT IS ENDED

WIRE NO.	X1	Y1	Z1	X2	Y2	Z2	RADIUS	NO. OF SEG.	FIRST SEG.	LAST SEG.	TAG NO.
1	0.00000	0.00000	0.00000	0.00000	0.00000	56.30000	0.00129	10	1	10	1
2	0.00000	0.00000	0.00000	0.00000	0.00000	-0.15000	0.00129	1	11	11	2
3	0.00000	0.00000	-0.15000	21.70000	0.00000	-0.15000	0.00129	5	12	16	3
4	0.00000	0.00000	-0.15000	21.67000	1.14000	-0.15000	0.00129	5	17	21	4
5	0.00000	0.00000	-0.15000	21.58000	2.27000	-0.15000	0.00129	5	22	26	5
6	0.00000	0.00000	-0.15000	21.43000	3.39000	-0.15000	0.00129	5	27	31	6
7	0.00000	0.00000	-0.15000	21.23000	4.51000	-0.15000	0.00129	5	32	36	7
8	0.00000	0.00000	-0.15000	20.96000	5.62000	-0.15000	0.00129	5	37	41	8
9	0.00000	0.00000	-0.15000	20.64000	6.71000	-0.15000	0.00129	5	42	46	9
10	0.00000	0.00000	-0.15000	20.26000	7.78000	-0.15000	0.00129	5	47	51	10
11	0.00000	0.00000	-0.15000	19.82000	8.83000	-0.15000	0.00129	5	52	56	11
12	0.00000	0.00000	-0.15000	19.33000	9.85000	-0.15000	0.00129	5	57	61	12
13	0.00000	0.00000	-0.15000	18.79000	10.85000	-0.15000	0.00129	5	62	66	13
14	0.00000	0.00000	-0.15000	18.20000	11.82000	-0.15000	0.00129	5	67	71	14
15	0.00000	0.00000	-0.15000	17.56000	12.75000	-0.15000	0.00129	5	72	76	15
16	0.00000	0.00000	-0.15000	16.86000	13.66000	-0.15000	0.00129	5	77	81	16
17	0.00000	0.00000	-0.15000	16.13000	14.52000	-0.15000	0.00129	5	82	86	17
18	0.00000	0.00000	-0.15000	15.34000	15.34000	-0.15000	0.00129	5	87	91	18
19	0.00000	0.00000	-0.15000	14.52000	16.13000	-0.15000	0.00129	5	92	96	19
20	0.00000	0.00000	-0.15000	13.66000	16.86000	-0.15000	0.00129	5	97	101	20
21	0.00000	0.00000	-0.15000	12.75000	17.56000	-0.15000	0.00129	5	102	106	21
22	0.00000	0.00000	-0.15000	11.82000	18.20000	-0.15000	0.00129	5	107	111	22
23	0.00000	0.00000	-0.15000	10.85000	18.79000	-0.15000	0.00129	5	112	116	23
24	0.00000	0.00000	-0.15000	9.85000	19.33000	-0.15000	0.00129	5	117	121	24
25	0.00000	0.00000	-0.15000	8.83000	19.82000	-0.15000	0.00129	5	122	126	25
26	0.00000	0.00000	-0.15000	7.78000	20.26000	-0.15000	0.00129	5	127	131	26
27	0.00000	0.00000	-0.15000	6.71000	20.64000	-0.15000	0.00129	5	132	136	27
28	0.00000	0.00000	-0.15000	5.62000	20.96000	-0.15000	0.00129	5	137	141	28
29	0.00000	0.00000	-0.15000	4.51000	21.23000	-0.15000	0.00129	5	142	146	29
30	0.00000	0.00000	-0.15000	3.39000	21.43000	-0.15000	0.00129	5	147	151	30
31	0.00000	0.00000	-0.15000	2.27000	21.58000	-0.15000	0.00129	5	152	156	31
32	0.00000	0.00000	-0.15000	1.14000	21.67000	-0.15000	0.00129	5	157	161	32
33	0.00000	0.00000	-0.15000	0.00000	21.70000	-0.15000	0.00129	5	162	166	33
34	0.00000	0.00000	-0.15000	-1.14000	21.67000	-0.15000	0.00129	5	167	171	34

35	0.00000	0.00000	-0.15000	-2.27000	21.58000	-0.15000	0.00129	5	172	176	35
36	0.00000	0.00000	-0.15000	-3.39000	21.43000	-0.15000	0.00129	5	177	181	36
37	0.00000	0.00000	-0.15000	-4.51000	21.23000	-0.15000	0.00129	5	182	186	37
38	0.00000	0.00000	-0.15000	-5.62000	20.96000	-0.15000	0.00129	5	187	191	38
39	0.00000	0.00000	-0.15000	-6.71000	20.64000	-0.15000	0.00129	5	192	196	39
40	0.00000	0.00000	-0.15000	-7.78000	20.26000	-0.15000	0.00129	5	197	201	40
41	0.00000	0.00000	-0.15000	-8.83000	19.82000	-0.15000	0.00129	5	202	206	41
42	0.00000	0.00000	-0.15000	-9.85000	19.33000	-0.15000	0.00129	5	207	211	42
43	0.00000	0.00000	-0.15000	-10.85000	18.79000	-0.15000	0.00129	5	212	216	43
44	0.00000	0.00000	-0.15000	-11.82000	18.20000	-0.15000	0.00129	5	217	221	44
45	0.00000	0.00000	-0.15000	-12.75000	17.56000	-0.15000	0.00129	5	222	226	45
46	0.00000	0.00000	-0.15000	-13.66000	16.86000	-0.15000	0.00129	5	227	231	46
47	0.00000	0.00000	-0.15000	-14.52000	16.13000	-0.15000	0.00129	5	232	236	47
48	0.00000	0.00000	-0.15000	-15.34000	15.34000	-0.15000	0.00129	5	237	241	48
49	0.00000	0.00000	-0.15000	-16.13000	14.52000	-0.15000	0.00129	5	242	246	49
50	0.00000	0.00000	-0.15000	-16.86000	13.66000	-0.15000	0.00129	5	247	251	50
51	0.00000	0.00000	-0.15000	-17.56000	12.75000	-0.15000	0.00129	5	252	256	51
52	0.00000	0.00000	-0.15000	-18.20000	11.82000	-0.15000	0.00129	5	257	261	52
53	0.00000	0.00000	-0.15000	-18.79000	10.85000	-0.15000	0.00129	5	262	266	53
54	0.00000	0.00000	-0.15000	-19.33000	9.85000	-0.15000	0.00129	5	267	271	54
55	0.00000	0.00000	-0.15000	-19.82000	8.83000	-0.15000	0.00129	5	272	276	55
56	0.00000	0.00000	-0.15000	-20.26000	7.78000	-0.15000	0.00129	5	277	281	56
57	0.00000	0.00000	-0.15000	-20.64000	6.71000	-0.15000	0.00129	5	282	286	57
58	0.00000	0.00000	-0.15000	-20.96000	5.62000	-0.15000	0.00129	5	287	291	58
59	0.00000	0.00000	-0.15000	-21.23000	4.51000	-0.15000	0.00129	5	292	296	59
60	0.00000	0.00000	-0.15000	-21.43000	3.39000	-0.15000	0.00129	5	297	301	60
61	0.00000	0.00000	-0.15000	-21.58000	2.27000	-0.15000	0.00129	5	302	306	61
62	0.00000	0.00000	-0.15000	-21.67000	1.14000	-0.15000	0.00129	5	307	311	62
63	0.00000	0.00000	-0.15000	-21.70000	0.00000	-0.15000	0.00129	5	312	316	63
64	0.00000	0.00000	-0.15000	-21.67000	-1.14000	-0.15000	0.00129	5	317	321	64
65	0.00000	0.00000	-0.15000	-21.58000	-2.27000	-0.15000	0.00129	5	322	326	65
66	0.00000	0.00000	-0.15000	-21.43000	-3.39000	-0.15000	0.00129	5	327	331	66
67	0.00000	0.00000	-0.15000	-21.23000	-4.51000	-0.15000	0.00129	5	332	336	67
68	0.00000	0.00000	-0.15000	-20.96000	-5.62000	-0.15000	0.00129	5	337	341	68
69	0.00000	0.00000	-0.15000	-20.64000	-6.71000	-0.15000	0.00129	5	342	346	69
70	0.00000	0.00000	-0.15000	-20.26000	-7.78000	-0.15000	0.00129	5	347	351	70
71	0.00000	0.00000	-0.15000	-19.82000	-8.83000	-0.15000	0.00129	5	352	356	71
72	0.00000	0.00000	-0.15000	-19.33000	-9.85000	-0.15000	0.00129	5	357	361	72
73	0.00000	0.00000	-0.15000	-18.79000	-10.85000	-0.15000	0.00129	5	362	366	73
74	0.00000	0.00000	-0.15000	-18.20000	-11.82000	-0.15000	0.00129	5	367	371	74
75	0.00000	0.00000	-0.15000	-17.56000	-12.75000	-0.15000	0.00129	5	372	376	75
76	0.00000	0.00000	-0.15000	-16.86000	-13.66000	-0.15000	0.00129	5	377	381	76
77	0.00000	0.00000	-0.15000	-16.13000	-14.52000	-0.15000	0.00129	5	382	386	77
78	0.00000	0.00000	-0.15000	-15.34000	-15.34000	-0.15000	0.00129	5	387	391	78
79	0.00000	0.00000	-0.15000	-14.52000	-16.13000	-0.15000	0.00129	5	392	396	79
80	0.00000	0.00000	-0.15000	-13.66000	-16.86000	-0.15000	0.00129	5	397	401	80
81	0.00000	0.00000	-0.15000	-12.75000	-17.56000	-0.15000	0.00129	5	402	406	81
82	0.00000	0.00000	-0.15000	-11.82000	-18.20000	-0.15000	0.00129	5	407	411	82
83	0.00000	0.00000	-0.15000	-10.85000	-18.79000	-0.15000	0.00129	5	412	416	83
84	0.00000	0.00000	-0.15000	-9.85000	-19.33000	-0.15000	0.00129	5	417	421	84
85	0.00000	0.00000	-0.15000	-8.83000	-19.82000	-0.15000	0.00129	5	422	426	85
86	0.00000	0.00000	-0.15000	-7.78000	-20.26000	-0.15000	0.00129	5	427	431	86
87	0.00000	0.00000	-0.15000	-6.71000	-20.64000	-0.15000	0.00129	5	432	436	87
88	0.00000	0.00000	-0.15000	-5.62000	-20.96000	-0.15000	0.00129	5	437	441	88
89	0.00000	0.00000	-0.15000	-4.51000	-21.23000	-0.15000	0.00129	5	442	446	89
90	0.00000	0.00000	-0.15000	-3.39000	-21.43000	-0.15000	0.00129	5	447	451	90
91	0.00000	0.00000	-0.15000	-2.27000	-21.58000	-0.15000	0.00129	5	452	456	91
92	0.00000	0.00000	-0.15000	-1.14000	-21.67000	-0.15000	0.00129	5	457	461	92
93	0.00000	0.00000	-0.15000	0.00000	-21.70000	-0.15000	0.00129	5	462	466	93
94	0.00000	0.00000	-0.15000	1.14000	-21.67000	-0.15000	0.00129	5	467	471	94
95	0.00000	0.00000	-0.15000	2.27000	-21.58000	-0.15000	0.00129	5	472	476	95
96	0.00000	0.00000	-0.15000	3.39000	-21.43000	-0.15000	0.00129	5	477	481	96
97	0.00000	0.00000	-0.15000	4.51000	-21.23000	-0.15000	0.00129	5	482	486	97
98	0.00000	0.00000	-0.15000	5.62000	-20.96000	-0.15000	0.00129	5	487	491	98
99	0.00000	0.00000	-0.15000	6.71000	-20.64000	-0.15000	0.00129	5	492	496	99
100	0.00000	0.00000	-0.15000	7.78000	-20.26000	-0.15000	0.00129	5	497	501	100
101	0.00000	0.00000	-0.15000	8.83000	-19.82000	-0.15000	0.00129	5	502	506	101
102	0.00000	0.00000	-0.15000	9.85000	-19.33000	-0.15000	0.00129	5	507	511	102
103	0.00000	0.00000	-0.15000	10.85000	-18.79000	-0.15000	0.00129	5	512	516	103
104	0.00000	0.00000	-0.15000	11.82000	-18.20000	-0.15000	0.00129	5	517	521	104

105	0.00000	0.00000	-0.15000	12.75000	-17.56000	-0.15000	0.00129	5	522	526	105
106	0.00000	0.00000	-0.15000	13.66000	-16.86000	-0.15000	0.00129	5	527	531	106
107	0.00000	0.00000	-0.15000	14.52000	-16.13000	-0.15000	0.00129	5	532	536	107
108	0.00000	0.00000	-0.15000	15.34000	-15.34000	-0.15000	0.00129	5	537	541	108
109	0.00000	0.00000	-0.15000	16.13000	-14.52000	-0.15000	0.00129	5	542	546	109
110	0.00000	0.00000	-0.15000	16.86000	-13.66000	-0.15000	0.00129	5	547	551	110
111	0.00000	0.00000	-0.15000	17.56000	-12.75000	-0.15000	0.00129	5	552	556	111
112	0.00000	0.00000	-0.15000	18.20000	-11.82000	-0.15000	0.00129	5	557	561	112
113	0.00000	0.00000	-0.15000	18.79000	-10.85000	-0.15000	0.00129	5	562	566	113
114	0.00000	0.00000	-0.15000	19.33000	-9.85000	-0.15000	0.00129	5	567	571	114
115	0.00000	0.00000	-0.15000	19.82000	-8.83000	-0.15000	0.00129	5	572	576	115
116	0.00000	0.00000	-0.15000	20.26000	-7.78000	-0.15000	0.00129	5	577	581	116
117	0.00000	0.00000	-0.15000	20.64000	-6.71000	-0.15000	0.00129	5	582	586	117
118	0.00000	0.00000	-0.15000	20.96000	-5.62000	-0.15000	0.00129	5	587	591	118
119	0.00000	0.00000	-0.15000	21.23000	-4.51000	-0.15000	0.00129	5	592	596	119
120	0.00000	0.00000	-0.15000	21.43000	-3.39000	-0.15000	0.00129	5	597	601	120
121	0.00000	0.00000	-0.15000	21.58000	-2.27000	-0.15000	0.00129	5	602	606	121
122	0.00000	0.00000	-0.15000	21.67000	-1.14000	-0.15000	0.00129	5	607	611	122

STRUCTURE SCALED BY FACTOR 1.00000

GROUND PLANE SPECIFIED.

TOTAL SEGMENTS USED= 611 NO. SEG. IN A SYMMETRIC CELL= 611 SYMMETRY FLAG= 0

- MULTIPLE WIRE JUNCTIONS -

JUNCTION	SEGMENTS (- FOR END 1, + FOR END 2)																			
1	11	-12	-17	-22	-27	-32	-37	-42	-47	-52	-57	-62	-67	-72	-77	-82	-87	-92	-97	-102
	-107	-112	-117	-122	-127	-132	-137	-142	-147	-152	-157	-162	-167	-172	-177	-182	-187	-192	-197	-202
	-207	-212	-217	-222	-227	-232	-237	-242	-247	-252	-257	-262	-267	-272	-277	-282	-287	-292	-297	-302
	-307	-312	-317	-322	-327	-332	-337	-342	-347	-352	-357	-362	-367	-372	-377	-382	-387	-392	-397	-402
	-407	-412	-417	-422	-427	-432	-437	-442	-447	-452	-457	-462	-467	-472	-477	-482	-487	-492	-497	-502
	-507	-512	-517	-522	-527	-532	-537	-542	-547	-552	-557	-562	-567	-572	-577	-582	-587	-592	-597	-602
	-607																			

- - - SEGMENTATION DATA - - -

COORDINATES IN METERS

I+ AND I- INDICATE THE SEGMENTS BEFORE AND AFTER I

SEG. NO.	COORDINATES OF SEG. CENTER			SEG. LENGTH	ORIENTATION ANGLES		WIRE RADIUS	CONNECTION DATA			TAG NO.
	X	Y	Z		ALPHA	BETA		I-	I	I+	
1	0.00000	0.00000	2.81500	5.63000	90.00000	0.00000	0.00129	-11	1	2	1
2	0.00000	0.00000	8.44500	5.63000	90.00000	0.00000	0.00129	1	2	3	1
3	0.00000	0.00000	14.07500	5.63000	90.00000	0.00000	0.00129	2	3	4	1
4	0.00000	0.00000	19.70500	5.63000	90.00000	0.00000	0.00129	3	4	5	1
5	0.00000	0.00000	25.33500	5.63000	90.00000	0.00000	0.00129	4	5	6	1
6	0.00000	0.00000	30.96500	5.63000	90.00000	0.00000	0.00129	5	6	7	1
7	0.00000	0.00000	36.59500	5.63000	90.00000	0.00000	0.00129	6	7	8	1
8	0.00000	0.00000	42.22500	5.63000	90.00000	0.00000	0.00129	7	8	9	1
9	0.00000	0.00000	47.85500	5.63000	90.00000	0.00000	0.00129	8	9	10	1
10	0.00000	0.00000	53.48500	5.63000	90.00000	0.00000	0.00129	9	10	0	1
11	0.00000	0.00000	-0.07500	0.15000	-90.00000	0.00000	0.00129	-1	11	12	2
12	2.17000	0.00000	-0.15000	4.34000	0.00000	0.00000	0.00129	-17	12	13	3
13	6.51000	0.00000	-0.15000	4.34000	0.00000	0.00000	0.00129	12	13	14	3
14	10.85000	0.00000	-0.15000	4.34000	0.00000	0.00000	0.00129	13	14	15	3
15	15.19000	0.00000	-0.15000	4.34000	0.00000	0.00000	0.00129	14	15	16	3
16	19.53000	0.00000	-0.15000	4.34000	0.00000	0.00000	0.00129	15	16	0	3
17	2.16700	0.11400	-0.15000	4.33999	0.00000	3.01140	0.00129	-22	17	18	4
18	6.50100	0.34200	-0.15000	4.33999	0.00000	3.01140	0.00129	17	18	19	4
19	10.83500	0.57000	-0.15000	4.33999	0.00000	3.01140	0.00129	18	19	20	4
20	15.16900	0.79800	-0.15000	4.33999	0.00000	3.01140	0.00129	19	20	21	4
21	19.50300	1.02600	-0.15000	4.33999	0.00000	3.01140	0.00129	20	21	0	4
22	2.15800	0.22700	-0.15000	4.33981	0.00000	6.00486	0.00129	-27	22	23	5
23	6.47400	0.68100	-0.15000	4.33981	0.00000	6.00486	0.00129	22	23	24	5

24	10.79000	1.13500	-0.15000	4.33981	0.00000	6.00486	0.00129	23	24	25	5
25	15.10600	1.58900	-0.15000	4.33981	0.00000	6.00486	0.00129	24	25	26	5
26	19.42200	2.04300	-0.15000	4.33981	0.00000	6.00486	0.00129	25	26	0	5
27	2.14300	0.33900	-0.15000	4.33929	0.00000	8.98910	0.00129	-32	27	28	6
28	6.42900	1.01700	-0.15000	4.33929	0.00000	8.98910	0.00129	27	28	29	6
29	10.71500	1.69500	-0.15000	4.33929	0.00000	8.98910	0.00129	28	29	30	6
30	15.00100	2.37300	-0.15000	4.33929	0.00000	8.98910	0.00129	29	30	31	6
31	19.28700	3.05100	-0.15000	4.33929	0.00000	8.98910	0.00129	30	31	0	6
32	2.12300	0.45100	-0.15000	4.34075	0.00000	11.99335	0.00129	-37	32	33	7
33	6.36900	1.35300	-0.15000	4.34075	0.00000	11.99335	0.00129	32	33	34	7
34	10.61500	2.25500	-0.15000	4.34075	0.00000	11.99335	0.00129	33	34	35	7
35	14.86100	3.15700	-0.15000	4.34075	0.00000	11.99335	0.00129	34	35	36	7
36	19.10700	4.05900	-0.15000	4.34075	0.00000	11.99335	0.00129	35	36	0	7
37	2.09600	0.56200	-0.15000	4.34007	0.00000	15.00965	0.00129	-42	37	38	8
38	6.28800	1.68600	-0.15000	4.34007	0.00000	15.00965	0.00129	37	38	39	8
39	10.48000	2.81000	-0.15000	4.34007	0.00000	15.00965	0.00129	38	39	40	8
40	14.67200	3.93400	-0.15000	4.34007	0.00000	15.00965	0.00129	39	40	41	8
41	18.86400	5.05800	-0.15000	4.34007	0.00000	15.00965	0.00129	40	41	0	8
42	2.06400	0.67100	-0.15000	4.34066	0.00000	18.00918	0.00129	-47	42	43	9
43	6.19200	2.01300	-0.15000	4.34066	0.00000	18.00918	0.00129	42	43	44	9
44	10.32000	3.35500	-0.15000	4.34066	0.00000	18.00918	0.00129	43	44	45	9
45	14.44800	4.69700	-0.15000	4.34066	0.00000	18.00918	0.00129	44	45	46	9
46	18.57600	6.03900	-0.15000	4.34066	0.00000	18.00918	0.00129	45	46	0	9
47	2.02600	0.77800	-0.15000	4.34049	0.00000	21.00718	0.00129	-52	47	48	10
48	6.07800	2.33400	-0.15000	4.34049	0.00000	21.00718	0.00129	47	48	49	10
49	10.13000	3.89000	-0.15000	4.34049	0.00000	21.00718	0.00129	48	49	50	10
50	14.18200	5.44600	-0.15000	4.34049	0.00000	21.00718	0.00129	49	50	51	10
51	18.23400	7.00200	-0.15000	4.34049	0.00000	21.00718	0.00129	50	51	0	10
52	1.98200	0.88300	-0.15000	4.33959	0.00000	24.01343	0.00129	-57	52	53	11
53	5.94600	2.64900	-0.15000	4.33959	0.00000	24.01343	0.00129	52	53	54	11
54	9.91000	4.41500	-0.15000	4.33959	0.00000	24.01343	0.00129	53	54	55	11
55	13.87400	6.18100	-0.15000	4.33959	0.00000	24.01343	0.00129	54	55	56	11
56	17.83800	7.94700	-0.15000	4.33959	0.00000	24.01343	0.00129	55	56	0	11
57	1.93300	0.98500	-0.15000	4.33899	0.00000	27.00205	0.00129	-62	57	58	12
58	5.79900	2.95500	-0.15000	4.33899	0.00000	27.00205	0.00129	57	58	59	12
59	9.66500	4.92500	-0.15000	4.33899	0.00000	27.00205	0.00129	58	59	60	12
60	13.53100	6.89500	-0.15000	4.33899	0.00000	27.00205	0.00129	59	60	61	12
61	17.39700	8.86500	-0.15000	4.33899	0.00000	27.00205	0.00129	60	61	0	12
62	1.87900	1.08500	-0.15000	4.33952	0.00000	30.00363	0.00129	-67	62	63	13
63	5.63700	3.25500	-0.15000	4.33952	0.00000	30.00363	0.00129	62	63	64	13
64	9.39500	5.42500	-0.15000	4.33952	0.00000	30.00363	0.00129	63	64	65	13
65	13.15300	7.59500	-0.15000	4.33952	0.00000	30.00363	0.00129	64	65	66	13
66	16.91100	9.76500	-0.15000	4.33952	0.00000	30.00363	0.00129	65	66	0	13
67	1.82000	1.18200	-0.15000	4.34029	0.00000	33.00173	0.00129	-72	67	68	14
68	5.46000	3.54600	-0.15000	4.34029	0.00000	33.00173	0.00129	67	68	69	14
69	9.10000	5.91000	-0.15000	4.34029	0.00000	33.00173	0.00129	68	69	70	14
70	12.74000	8.27400	-0.15000	4.34029	0.00000	33.00173	0.00129	69	70	71	14
71	16.38000	10.63800	-0.15000	4.34029	0.00000	33.00173	0.00129	70	71	0	14
72	1.75600	1.27500	-0.15000	4.34012	0.00000	35.98273	0.00129	-77	72	73	15
73	5.26800	3.82500	-0.15000	4.34012	0.00000	35.98273	0.00129	72	73	74	15
74	8.78000	6.37500	-0.15000	4.34012	0.00000	35.98273	0.00129	73	74	75	15
75	12.29200	8.92500	-0.15000	4.34012	0.00000	35.98273	0.00129	74	75	76	15
76	15.80400	11.47500	-0.15000	4.34012	0.00000	35.98273	0.00129	75	76	0	15
77	1.68600	1.36600	-0.15000	4.33984	0.00000	39.01445	0.00129	-82	77	78	16
78	5.05800	4.09800	-0.15000	4.33984	0.00000	39.01445	0.00129	77	78	79	16
79	8.43000	6.83000	-0.15000	4.33984	0.00000	39.01445	0.00129	78	79	80	16
80	11.80200	9.56200	-0.15000	4.33984	0.00000	39.01445	0.00129	79	80	81	16
81	15.17400	12.29400	-0.15000	4.33984	0.00000	39.01445	0.00129	80	81	0	16
82	1.61300	1.45200	-0.15000	4.34054	0.00000	41.99310	0.00129	-87	82	83	17
83	4.83900	4.35600	-0.15000	4.34054	0.00000	41.99310	0.00129	82	83	84	17
84	8.06500	7.26000	-0.15000	4.34054	0.00000	41.99310	0.00129	83	84	85	17
85	11.29100	10.16400	-0.15000	4.34054	0.00000	41.99310	0.00129	84	85	86	17
86	14.51700	13.06800	-0.15000	4.34054	0.00000	41.99310	0.00129	85	86	0	17
87	1.53400	1.53400	-0.15000	4.33881	0.00000	45.00000	0.00129	-92	87	88	18
88	4.60200	4.60200	-0.15000	4.33881	0.00000	45.00000	0.00129	87	88	89	18
89	7.67000	7.67000	-0.15000	4.33881	0.00000	45.00000	0.00129	88	89	90	18
90	10.73800	10.73800	-0.15000	4.33881	0.00000	45.00000	0.00129	89	90	91	18
91	13.80600	13.80600	-0.15000	4.33881	0.00000	45.00000	0.00129	90	91	0	18
92	1.45200	1.61300	-0.15000	4.34054	0.00000	48.00690	0.00129	-97	92	93	19
93	4.35600	4.83900	-0.15000	4.34054	0.00000	48.00690	0.00129	92	93	94	19

94	7.26000	8.06500	-0.15000	4.34054	0.00000	48.00690	0.00129	93	94	95	19
95	10.16400	11.29100	-0.15000	4.34054	0.00000	48.00690	0.00129	94	95	96	19
96	13.06800	14.51700	-0.15000	4.34054	0.00000	48.00690	0.00129	95	96	0	19
97	1.36600	1.68600	-0.15000	4.33984	0.00000	50.98555	0.00129	-102	97	98	20
98	4.09800	5.05800	-0.15000	4.33984	0.00000	50.98555	0.00129	97	98	99	20
99	6.83000	8.43000	-0.15000	4.33984	0.00000	50.98555	0.00129	98	99	100	20
100	9.56200	11.80200	-0.15000	4.33984	0.00000	50.98555	0.00129	99	100	101	20
101	12.29400	15.17400	-0.15000	4.33984	0.00000	50.98555	0.00129	100	101	0	20
102	1.27500	1.75600	-0.15000	4.34012	0.00000	54.01727	0.00129	-107	102	103	21
103	3.82500	5.26800	-0.15000	4.34012	0.00000	54.01727	0.00129	102	103	104	21
104	6.37500	8.78000	-0.15000	4.34012	0.00000	54.01727	0.00129	103	104	105	21
105	8.92500	12.29200	-0.15000	4.34012	0.00000	54.01727	0.00129	104	105	106	21
106	11.47500	15.80400	-0.15000	4.34012	0.00000	54.01727	0.00129	105	106	0	21
107	1.18200	1.82000	-0.15000	4.34029	0.00000	56.99827	0.00129	-112	107	108	22
108	3.54600	5.46000	-0.15000	4.34029	0.00000	56.99827	0.00129	107	108	109	22
109	5.91000	9.10000	-0.15000	4.34029	0.00000	56.99827	0.00129	108	109	110	22
110	8.27400	12.74000	-0.15000	4.34029	0.00000	56.99827	0.00129	109	110	111	22
111	10.63800	16.38000	-0.15000	4.34029	0.00000	56.99827	0.00129	110	111	0	22
112	1.08500	1.87900	-0.15000	4.33952	0.00000	59.99637	0.00129	-117	112	113	23
113	3.25500	5.63700	-0.15000	4.33952	0.00000	59.99637	0.00129	112	113	114	23
114	5.42500	9.39500	-0.15000	4.33952	0.00000	59.99637	0.00129	113	114	115	23
115	7.59500	13.15300	-0.15000	4.33952	0.00000	59.99637	0.00129	114	115	116	23
116	9.76500	16.91100	-0.15000	4.33952	0.00000	59.99637	0.00129	115	116	0	23
117	0.98500	1.93300	-0.15000	4.33899	0.00000	62.99795	0.00129	-122	117	118	24
118	2.95500	5.79900	-0.15000	4.33899	0.00000	62.99795	0.00129	117	118	119	24
119	4.92500	9.66500	-0.15000	4.33899	0.00000	62.99795	0.00129	118	119	120	24
120	6.89500	13.53100	-0.15000	4.33899	0.00000	62.99795	0.00129	119	120	121	24
121	8.86500	17.39700	-0.15000	4.33899	0.00000	62.99795	0.00129	120	121	0	24
122	0.88300	1.98200	-0.15000	4.33959	0.00000	65.98657	0.00129	-127	122	123	25
123	2.64900	5.94600	-0.15000	4.33959	0.00000	65.98657	0.00129	122	123	124	25
124	4.41500	9.91000	-0.15000	4.33959	0.00000	65.98657	0.00129	123	124	125	25
125	6.18100	13.87400	-0.15000	4.33959	0.00000	65.98657	0.00129	124	125	126	25
126	7.94700	17.83800	-0.15000	4.33959	0.00000	65.98657	0.00129	125	126	0	25
127	0.77800	2.02600	-0.15000	4.34049	0.00000	68.99282	0.00129	-132	127	128	26
128	2.33400	6.07800	-0.15000	4.34049	0.00000	68.99282	0.00129	127	128	129	26
129	3.89000	10.13000	-0.15000	4.34049	0.00000	68.99282	0.00129	128	129	130	26
130	5.44600	14.18200	-0.15000	4.34049	0.00000	68.99282	0.00129	129	130	131	26
131	7.00200	18.23400	-0.15000	4.34049	0.00000	68.99282	0.00129	130	131	0	26
132	0.67100	2.06400	-0.15000	4.34066	0.00000	71.99082	0.00129	-137	132	133	27
133	2.01300	6.19200	-0.15000	4.34066	0.00000	71.99082	0.00129	132	133	134	27
134	3.35500	10.32000	-0.15000	4.34066	0.00000	71.99082	0.00129	133	134	135	27
135	4.69700	14.44800	-0.15000	4.34066	0.00000	71.99082	0.00129	134	135	136	27
136	6.03900	18.57600	-0.15000	4.34066	0.00000	71.99082	0.00129	135	136	0	27
137	0.56200	2.09600	-0.15000	4.34007	0.00000	74.99035	0.00129	-142	137	138	28
138	1.68600	6.28800	-0.15000	4.34007	0.00000	74.99035	0.00129	137	138	139	28
139	2.81000	10.48000	-0.15000	4.34007	0.00000	74.99035	0.00129	138	139	140	28
140	3.93400	14.67200	-0.15000	4.34007	0.00000	74.99035	0.00129	139	140	141	28
141	5.05800	18.86400	-0.15000	4.34007	0.00000	74.99035	0.00129	140	141	0	28
142	0.45100	2.12300	-0.15000	4.34075	0.00000	78.00665	0.00129	-147	142	143	29
143	1.35300	6.36900	-0.15000	4.34075	0.00000	78.00665	0.00129	142	143	144	29
144	2.25500	10.61500	-0.15000	4.34075	0.00000	78.00665	0.00129	143	144	145	29
145	3.15700	14.86100	-0.15000	4.34075	0.00000	78.00665	0.00129	144	145	146	29
146	4.05900	19.10700	-0.15000	4.34075	0.00000	78.00665	0.00129	145	146	0	29
147	0.33900	2.14300	-0.15000	4.33929	0.00000	81.01090	0.00129	-152	147	148	30
148	1.01700	6.42900	-0.15000	4.33929	0.00000	81.01090	0.00129	147	148	149	30
149	1.69500	10.71500	-0.15000	4.33929	0.00000	81.01090	0.00129	148	149	150	30
150	2.37300	15.00100	-0.15000	4.33929	0.00000	81.01090	0.00129	149	150	151	30
151	3.05100	19.28700	-0.15000	4.33929	0.00000	81.01090	0.00129	150	151	0	30
152	0.22700	2.15800	-0.15000	4.33981	0.00000	83.99514	0.00129	-157	152	153	31
153	0.68100	6.47400	-0.15000	4.33981	0.00000	83.99514	0.00129	152	153	154	31
154	1.13500	10.79000	-0.15000	4.33981	0.00000	83.99514	0.00129	153	154	155	31
155	1.58900	15.10600	-0.15000	4.33981	0.00000	83.99514	0.00129	154	155	156	31
156	2.04300	19.42200	-0.15000	4.33981	0.00000	83.99514	0.00129	155	156	0	31
157	0.11400	2.16700	-0.15000	4.33999	0.00000	86.98860	0.00129	-162	157	158	32
158	0.34200	6.50100	-0.15000	4.33999	0.00000	86.98860	0.00129	157	158	159	32
159	0.57000	10.83500	-0.15000	4.33999	0.00000	86.98860	0.00129	158	159	160	32
160	0.79800	15.16900	-0.15000	4.33999	0.00000	86.98860	0.00129	159	160	161	32
161	1.02600	19.50300	-0.15000	4.33999	0.00000	86.98860	0.00129	160	161	0	32
162	0.00000	2.17000	-0.15000	4.34000	0.00000	90.00000	0.00129	-167	162	163	33
163	0.00000	6.51000	-0.15000	4.34000	0.00000	90.00000	0.00129	162	163	164	33

164	0.00000	10.85000	-0.15000	4.34000	0.00000	90.00000	0.00129	163	164	165	33
165	0.00000	15.19000	-0.15000	4.34000	0.00000	90.00000	0.00129	164	165	166	33
166	0.00000	19.53000	-0.15000	4.34000	0.00000	90.00000	0.00129	165	166	0	33
167	-0.11400	2.16700	-0.15000	4.33999	0.00000	93.01140	0.00129	-172	167	168	34
168	-0.34200	6.50100	-0.15000	4.33999	0.00000	93.01140	0.00129	167	168	169	34
169	-0.57000	10.83500	-0.15000	4.33999	0.00000	93.01140	0.00129	168	169	170	34
170	-0.79800	15.16900	-0.15000	4.33999	0.00000	93.01140	0.00129	169	170	171	34
171	-1.02600	19.50300	-0.15000	4.33999	0.00000	93.01140	0.00129	170	171	0	34
172	-0.22700	2.15800	-0.15000	4.33981	0.00000	96.00486	0.00129	-177	172	173	35
173	-0.68100	6.47400	-0.15000	4.33981	0.00000	96.00486	0.00129	172	173	174	35
174	-1.13500	10.79000	-0.15000	4.33981	0.00000	96.00486	0.00129	173	174	175	35
175	-1.58900	15.10600	-0.15000	4.33981	0.00000	96.00486	0.00129	174	175	176	35
176	-2.04300	19.42200	-0.15000	4.33981	0.00000	96.00486	0.00129	175	176	0	35
177	-0.33900	2.14300	-0.15000	4.33929	0.00000	98.98910	0.00129	-182	177	178	36
178	-1.01700	6.42900	-0.15000	4.33929	0.00000	98.98910	0.00129	177	178	179	36
179	-1.69500	10.71500	-0.15000	4.33929	0.00000	98.98910	0.00129	178	179	180	36
180	-2.37300	15.00100	-0.15000	4.33929	0.00000	98.98910	0.00129	179	180	181	36
181	-3.05100	19.28700	-0.15000	4.33929	0.00000	98.98910	0.00129	180	181	0	36
182	-0.45100	2.12300	-0.15000	4.34075	0.00000	101.99335	0.00129	-187	182	183	37
183	-1.35300	6.36900	-0.15000	4.34075	0.00000	101.99335	0.00129	182	183	184	37
184	-2.25500	10.61500	-0.15000	4.34075	0.00000	101.99335	0.00129	183	184	185	37
185	-3.15700	14.86100	-0.15000	4.34075	0.00000	101.99335	0.00129	184	185	186	37
186	-4.05900	19.10700	-0.15000	4.34075	0.00000	101.99335	0.00129	185	186	0	37
187	-0.56200	2.09600	-0.15000	4.34007	0.00000	105.00965	0.00129	-192	187	188	38
188	-1.68600	6.28800	-0.15000	4.34007	0.00000	105.00965	0.00129	187	188	189	38
189	-2.81000	10.48000	-0.15000	4.34007	0.00000	105.00965	0.00129	188	189	190	38
190	-3.93400	14.67200	-0.15000	4.34007	0.00000	105.00965	0.00129	189	190	191	38
191	-5.05800	18.86400	-0.15000	4.34007	0.00000	105.00965	0.00129	190	191	0	38
192	-0.67100	2.06400	-0.15000	4.34066	0.00000	108.00918	0.00129	-197	192	193	39
193	-2.01300	6.19200	-0.15000	4.34066	0.00000	108.00918	0.00129	192	193	194	39
194	-3.35500	10.32000	-0.15000	4.34066	0.00000	108.00918	0.00129	193	194	195	39
195	-4.69700	14.44800	-0.15000	4.34066	0.00000	108.00918	0.00129	194	195	196	39
196	-6.03900	18.57600	-0.15000	4.34066	0.00000	108.00918	0.00129	195	196	0	39
197	-0.77800	2.02600	-0.15000	4.34049	0.00000	111.00718	0.00129	-202	197	198	40
198	-2.33400	6.07800	-0.15000	4.34049	0.00000	111.00718	0.00129	197	198	199	40
199	-3.89000	10.13000	-0.15000	4.34049	0.00000	111.00718	0.00129	198	199	200	40
200	-5.44600	14.18200	-0.15000	4.34049	0.00000	111.00718	0.00129	199	200	201	40
201	-7.00200	18.23400	-0.15000	4.34049	0.00000	111.00718	0.00129	200	201	0	40
202	-0.88300	1.98200	-0.15000	4.33959	0.00000	114.01343	0.00129	-207	202	203	41
203	-2.64900	5.94600	-0.15000	4.33959	0.00000	114.01343	0.00129	202	203	204	41
204	-4.41500	9.91000	-0.15000	4.33959	0.00000	114.01343	0.00129	203	204	205	41
205	-6.18100	13.87400	-0.15000	4.33959	0.00000	114.01343	0.00129	204	205	206	41
206	-7.94700	17.83800	-0.15000	4.33959	0.00000	114.01343	0.00129	205	206	0	41
207	-0.98500	1.93300	-0.15000	4.33899	0.00000	117.00205	0.00129	-212	207	208	42
208	-2.95500	5.79900	-0.15000	4.33899	0.00000	117.00205	0.00129	207	208	209	42
209	-4.92500	9.66500	-0.15000	4.33899	0.00000	117.00205	0.00129	208	209	210	42
210	-6.89500	13.53100	-0.15000	4.33899	0.00000	117.00205	0.00129	209	210	211	42
211	-8.86500	17.39700	-0.15000	4.33899	0.00000	117.00205	0.00129	210	211	0	42
212	-1.08500	1.87900	-0.15000	4.33952	0.00000	120.00363	0.00129	-217	212	213	43
213	-3.25500	5.63700	-0.15000	4.33952	0.00000	120.00363	0.00129	212	213	214	43
214	-5.42500	9.39500	-0.15000	4.33952	0.00000	120.00363	0.00129	213	214	215	43
215	-7.59500	13.15300	-0.15000	4.33952	0.00000	120.00363	0.00129	214	215	216	43
216	-9.76500	16.91100	-0.15000	4.33952	0.00000	120.00363	0.00129	215	216	0	43
217	-1.18200	1.82000	-0.15000	4.34029	0.00000	123.00173	0.00129	-222	217	218	44
218	-3.54600	5.46000	-0.15000	4.34029	0.00000	123.00173	0.00129	217	218	219	44
219	-5.91000	9.10000	-0.15000	4.34029	0.00000	123.00173	0.00129	218	219	220	44
220	-8.27400	12.74000	-0.15000	4.34029	0.00000	123.00173	0.00129	219	220	221	44
221	-10.63800	16.38000	-0.15000	4.34029	0.00000	123.00173	0.00129	220	221	0	44
222	-1.27500	1.75600	-0.15000	4.34012	0.00000	125.98273	0.00129	-227	222	223	45
223	-3.82500	5.26800	-0.15000	4.34012	0.00000	125.98273	0.00129	222	223	224	45
224	-6.37500	8.78000	-0.15000	4.34012	0.00000	125.98273	0.00129	223	224	225	45
225	-8.92500	12.29200	-0.15000	4.34012	0.00000	125.98273	0.00129	224	225	226	45
226	-11.47500	15.80400	-0.15000	4.34012	0.00000	125.98273	0.00129	225	226	0	45
227	-1.36600	1.68600	-0.15000	4.33984	0.00000	129.01445	0.00129	-232	227	228	46
228	-4.09800	5.05800	-0.15000	4.33984	0.00000	129.01445	0.00129	227	228	229	46
229	-6.83000	8.43000	-0.15000	4.33984	0.00000	129.01445	0.00129	228	229	230	46
230	-9.56200	11.80200	-0.15000	4.33984	0.00000	129.01445	0.00129	229	230	231	46
231	-12.29400	15.17400	-0.15000	4.33984	0.00000	129.01445	0.00129	230	231	0	46
232	-1.45200	1.61300	-0.15000	4.34054	0.00000	131.99310	0.00129	-237	232	233	47
233	-4.35600	4.83900	-0.15000	4.34054	0.00000	131.99310	0.00129	232	233	234	47

234	-7.26000	8.06500	-0.15000	4.34054	0.00000	131.99310	0.00129	233	234	235	47
235	-10.16400	11.29100	-0.15000	4.34054	0.00000	131.99310	0.00129	234	235	236	47
236	-13.06800	14.51700	-0.15000	4.34054	0.00000	131.99310	0.00129	235	236	0	47
237	-1.53400	1.53400	-0.15000	4.33881	0.00000	135.00000	0.00129	-242	237	238	48
238	-4.60200	4.60200	-0.15000	4.33881	0.00000	135.00000	0.00129	237	238	239	48
239	-7.67000	7.67000	-0.15000	4.33881	0.00000	135.00000	0.00129	238	239	240	48
240	-10.73800	10.73800	-0.15000	4.33881	0.00000	135.00000	0.00129	239	240	241	48
241	-13.80600	13.80600	-0.15000	4.33881	0.00000	135.00000	0.00129	240	241	0	48
242	-1.61300	1.45200	-0.15000	4.34054	0.00000	138.00690	0.00129	-247	242	243	49
243	-4.83900	4.35600	-0.15000	4.34054	0.00000	138.00690	0.00129	242	243	244	49
244	-8.06500	7.26000	-0.15000	4.34054	0.00000	138.00690	0.00129	243	244	245	49
245	-11.29100	10.16400	-0.15000	4.34054	0.00000	138.00690	0.00129	244	245	246	49
246	-14.51700	13.06800	-0.15000	4.34054	0.00000	138.00690	0.00129	245	246	0	49
247	-1.68600	1.36600	-0.15000	4.33984	0.00000	140.98555	0.00129	-252	247	248	50
248	-5.05800	4.09800	-0.15000	4.33984	0.00000	140.98555	0.00129	247	248	249	50
249	-8.43000	6.83000	-0.15000	4.33984	0.00000	140.98555	0.00129	248	249	250	50
250	-11.80200	9.56200	-0.15000	4.33984	0.00000	140.98555	0.00129	249	250	251	50
251	-15.17400	12.29400	-0.15000	4.33984	0.00000	140.98555	0.00129	250	251	0	50
252	-1.75600	1.27500	-0.15000	4.34012	0.00000	144.01727	0.00129	-257	252	253	51
253	-5.26800	3.82500	-0.15000	4.34012	0.00000	144.01727	0.00129	252	253	254	51
254	-8.78000	6.37500	-0.15000	4.34012	0.00000	144.01727	0.00129	253	254	255	51
255	-12.29200	8.92500	-0.15000	4.34012	0.00000	144.01727	0.00129	254	255	256	51
256	-15.80400	11.47500	-0.15000	4.34012	0.00000	144.01727	0.00129	255	256	0	51
257	-1.82000	1.18200	-0.15000	4.34029	0.00000	146.99827	0.00129	-262	257	258	52
258	-5.46000	3.54600	-0.15000	4.34029	0.00000	146.99827	0.00129	257	258	259	52
259	-9.10000	5.91000	-0.15000	4.34029	0.00000	146.99827	0.00129	258	259	260	52
260	-12.74000	8.27400	-0.15000	4.34029	0.00000	146.99827	0.00129	259	260	261	52
261	-16.38000	10.63800	-0.15000	4.34029	0.00000	146.99827	0.00129	260	261	0	52
262	-1.87900	1.08500	-0.15000	4.33952	0.00000	149.99637	0.00129	-267	262	263	53
263	-5.63700	3.25500	-0.15000	4.33952	0.00000	149.99637	0.00129	262	263	264	53
264	-9.39500	5.42500	-0.15000	4.33952	0.00000	149.99637	0.00129	263	264	265	53
265	-13.15300	7.59500	-0.15000	4.33952	0.00000	149.99637	0.00129	264	265	266	53
266	-16.91100	9.76500	-0.15000	4.33952	0.00000	149.99637	0.00129	265	266	0	53
267	-1.93300	0.98500	-0.15000	4.33899	0.00000	152.99795	0.00129	-272	267	268	54
268	-5.79900	2.95500	-0.15000	4.33899	0.00000	152.99795	0.00129	267	268	269	54
269	-9.66500	4.92500	-0.15000	4.33899	0.00000	152.99795	0.00129	268	269	270	54
270	-13.53100	6.89500	-0.15000	4.33899	0.00000	152.99795	0.00129	269	270	271	54
271	-17.39700	8.86500	-0.15000	4.33899	0.00000	152.99795	0.00129	270	271	0	54
272	-1.98200	0.88300	-0.15000	4.33959	0.00000	155.98657	0.00129	-277	272	273	55
273	-5.94600	2.64900	-0.15000	4.33959	0.00000	155.98657	0.00129	272	273	274	55
274	-9.91000	4.41500	-0.15000	4.33959	0.00000	155.98657	0.00129	273	274	275	55
275	-13.87400	6.18100	-0.15000	4.33959	0.00000	155.98657	0.00129	274	275	276	55
276	-17.83800	7.94700	-0.15000	4.33959	0.00000	155.98657	0.00129	275	276	0	55
277	-2.02600	0.77800	-0.15000	4.34049	0.00000	158.99282	0.00129	-282	277	278	56
278	-6.07800	2.33400	-0.15000	4.34049	0.00000	158.99282	0.00129	277	278	279	56
279	-10.13000	3.89000	-0.15000	4.34049	0.00000	158.99282	0.00129	278	279	280	56
280	-14.18200	5.44600	-0.15000	4.34049	0.00000	158.99282	0.00129	279	280	281	56
281	-18.23400	7.00200	-0.15000	4.34049	0.00000	158.99282	0.00129	280	281	0	56
282	-2.06400	0.67100	-0.15000	4.34066	0.00000	161.99082	0.00129	-287	282	283	57
283	-6.19200	2.01300	-0.15000	4.34066	0.00000	161.99082	0.00129	282	283	284	57
284	-10.32000	3.35500	-0.15000	4.34066	0.00000	161.99082	0.00129	283	284	285	57
285	-14.44800	4.69700	-0.15000	4.34066	0.00000	161.99082	0.00129	284	285	286	57
286	-18.57600	6.03900	-0.15000	4.34066	0.00000	161.99082	0.00129	285	286	0	57
287	-2.09600	0.56200	-0.15000	4.34007	0.00000	164.99035	0.00129	-292	287	288	58
288	-6.28800	1.68600	-0.15000	4.34007	0.00000	164.99035	0.00129	287	288	289	58
289	-10.48000	2.81000	-0.15000	4.34007	0.00000	164.99035	0.00129	288	289	290	58
290	-14.67200	3.93400	-0.15000	4.34007	0.00000	164.99035	0.00129	289	290	291	58
291	-18.86400	5.05800	-0.15000	4.34007	0.00000	164.99035	0.00129	290	291	0	58
292	-2.12300	0.45100	-0.15000	4.34075	0.00000	168.00665	0.00129	-297	292	293	59
293	-6.36900	1.35300	-0.15000	4.34075	0.00000	168.00665	0.00129	292	293	294	59
294	-10.61500	2.25500	-0.15000	4.34075	0.00000	168.00665	0.00129	293	294	295	59
295	-14.86100	3.15700	-0.15000	4.34075	0.00000	168.00665	0.00129	294	295	296	59
296	-19.10700	4.05900	-0.15000	4.34075	0.00000	168.00665	0.00129	295	296	0	59
297	-2.14300	0.33900	-0.15000	4.33929	0.00000	171.01090	0.00129	-302	297	298	60
298	-6.42900	1.01700	-0.15000	4.33929	0.00000	171.01090	0.00129	297	298	299	60
299	-10.71500	1.69500	-0.15000	4.33929	0.00000	171.01090	0.00129	298	299	300	60
300	-15.00100	2.37300	-0.15000	4.33929	0.00000	171.01090	0.00129	299	300	301	60
301	-19.28700	3.05100	-0.15000	4.33929	0.00000	171.01090	0.00129	300	301	0	60
302	-2.15800	0.22700	-0.15000	4.33981	0.00000	173.99514	0.00129	-307	302	303	61
303	-6.47400	0.68100	-0.15000	4.33981	0.00000	173.99514	0.00129	302	303	304	61

304	-10.79000	1.13500	-0.15000	4.33981	0.00000	173.99514	0.00129	303	304	305	61
305	-15.10600	1.58900	-0.15000	4.33981	0.00000	173.99514	0.00129	304	305	306	61
306	-19.42200	2.04300	-0.15000	4.33981	0.00000	173.99514	0.00129	305	306	0	61
307	-2.16700	0.11400	-0.15000	4.33999	0.00000	176.98860	0.00129	-312	307	308	62
308	-6.50100	0.34200	-0.15000	4.33999	0.00000	176.98860	0.00129	307	308	309	62
309	-10.83500	0.57000	-0.15000	4.33999	0.00000	176.98860	0.00129	308	309	310	62
310	-15.16900	0.79800	-0.15000	4.33999	0.00000	176.98860	0.00129	309	310	311	62
311	-19.50300	1.02600	-0.15000	4.33999	0.00000	176.98860	0.00129	310	311	0	62
312	-2.17000	0.00000	-0.15000	4.34000	0.00000	180.00000	0.00129	-317	312	313	63
313	-6.51000	0.00000	-0.15000	4.34000	0.00000	180.00000	0.00129	312	313	314	63
314	-10.85000	0.00000	-0.15000	4.34000	0.00000	180.00000	0.00129	313	314	315	63
315	-15.19000	0.00000	-0.15000	4.34000	0.00000	180.00000	0.00129	314	315	316	63
316	-19.53000	0.00000	-0.15000	4.34000	0.00000	180.00000	0.00129	315	316	0	63
317	-2.16700	-0.11400	-0.15000	4.33999	0.00000	-176.98860	0.00129	-322	317	318	64
318	-6.50100	-0.34200	-0.15000	4.33999	0.00000	-176.98860	0.00129	317	318	319	64
319	-10.83500	-0.57000	-0.15000	4.33999	0.00000	-176.98860	0.00129	318	319	320	64
320	-15.16900	-0.79800	-0.15000	4.33999	0.00000	-176.98860	0.00129	319	320	321	64
321	-19.50300	-1.02600	-0.15000	4.33999	0.00000	-176.98860	0.00129	320	321	0	64
322	-2.15800	-0.22700	-0.15000	4.33981	0.00000	-173.99514	0.00129	-327	322	323	65
323	-6.47400	-0.68100	-0.15000	4.33981	0.00000	-173.99514	0.00129	322	323	324	65
324	-10.79000	-1.13500	-0.15000	4.33981	0.00000	-173.99514	0.00129	323	324	325	65
325	-15.10600	-1.58900	-0.15000	4.33981	0.00000	-173.99514	0.00129	324	325	326	65
326	-19.42200	-2.04300	-0.15000	4.33981	0.00000	-173.99514	0.00129	325	326	0	65
327	-2.14300	-0.33900	-0.15000	4.33929	0.00000	-171.01090	0.00129	-332	327	328	66
328	-6.42900	-1.01700	-0.15000	4.33929	0.00000	-171.01090	0.00129	327	328	329	66
329	-10.71500	-1.69500	-0.15000	4.33929	0.00000	-171.01090	0.00129	328	329	330	66
330	-15.00100	-2.37300	-0.15000	4.33929	0.00000	-171.01090	0.00129	329	330	331	66
331	-19.28700	-3.05100	-0.15000	4.33929	0.00000	-171.01090	0.00129	330	331	0	66
332	-2.12300	-0.45100	-0.15000	4.34075	0.00000	-168.00665	0.00129	-337	332	333	67
333	-6.36900	-1.35300	-0.15000	4.34075	0.00000	-168.00665	0.00129	332	333	334	67
334	-10.61500	-2.25500	-0.15000	4.34075	0.00000	-168.00665	0.00129	333	334	335	67
335	-14.86100	-3.15700	-0.15000	4.34075	0.00000	-168.00665	0.00129	334	335	336	67
336	-19.10700	-4.05900	-0.15000	4.34075	0.00000	-168.00665	0.00129	335	336	0	67
337	-2.09600	-0.56200	-0.15000	4.34007	0.00000	-164.99035	0.00129	-342	337	338	68
338	-6.28800	-1.68600	-0.15000	4.34007	0.00000	-164.99035	0.00129	337	338	339	68
339	-10.48000	-2.81000	-0.15000	4.34007	0.00000	-164.99035	0.00129	338	339	340	68
340	-14.67200	-3.93400	-0.15000	4.34007	0.00000	-164.99035	0.00129	339	340	341	68
341	-18.86400	-5.05800	-0.15000	4.34007	0.00000	-164.99035	0.00129	340	341	0	68
342	-2.06400	-0.67100	-0.15000	4.34066	0.00000	-161.99082	0.00129	-347	342	343	69
343	-6.19200	-2.01300	-0.15000	4.34066	0.00000	-161.99082	0.00129	342	343	344	69
344	-10.32000	-3.35500	-0.15000	4.34066	0.00000	-161.99082	0.00129	343	344	345	69
345	-14.44800	-4.69700	-0.15000	4.34066	0.00000	-161.99082	0.00129	344	345	346	69
346	-18.57600	-6.03900	-0.15000	4.34066	0.00000	-161.99082	0.00129	345	346	0	69
347	-2.02600	-0.77800	-0.15000	4.34049	0.00000	-158.99282	0.00129	-352	347	348	70
348	-6.07800	-2.33400	-0.15000	4.34049	0.00000	-158.99282	0.00129	347	348	349	70
349	-10.13000	-3.89000	-0.15000	4.34049	0.00000	-158.99282	0.00129	348	349	350	70
350	-14.18200	-5.44600	-0.15000	4.34049	0.00000	-158.99282	0.00129	349	350	351	70
351	-18.23400	-7.00200	-0.15000	4.34049	0.00000	-158.99282	0.00129	350	351	0	70
352	-1.98200	-0.88300	-0.15000	4.33959	0.00000	-155.98657	0.00129	-357	352	353	71
353	-5.94600	-2.64900	-0.15000	4.33959	0.00000	-155.98657	0.00129	352	353	354	71
354	-9.91000	-4.41500	-0.15000	4.33959	0.00000	-155.98657	0.00129	353	354	355	71
355	-13.87400	-6.18100	-0.15000	4.33959	0.00000	-155.98657	0.00129	354	355	356	71
356	-17.83800	-7.94700	-0.15000	4.33959	0.00000	-155.98657	0.00129	355	356	0	71
357	-1.93300	-0.98500	-0.15000	4.33899	0.00000	-152.99795	0.00129	-362	357	358	72
358	-5.79900	-2.95500	-0.15000	4.33899	0.00000	-152.99795	0.00129	357	358	359	72
359	-9.66500	-4.92500	-0.15000	4.33899	0.00000	-152.99795	0.00129	358	359	360	72
360	-13.53100	-6.89500	-0.15000	4.33899	0.00000	-152.99795	0.00129	359	360	361	72
361	-17.39700	-8.86500	-0.15000	4.33899	0.00000	-152.99795	0.00129	360	361	0	72
362	-1.87900	-1.08500	-0.15000	4.33952	0.00000	-149.99637	0.00129	-367	362	363	73
363	-5.63700	-3.25500	-0.15000	4.33952	0.00000	-149.99637	0.00129	362	363	364	73
364	-9.39500	-5.42500	-0.15000	4.33952	0.00000	-149.99637	0.00129	363	364	365	73
365	-13.15300	-7.59500	-0.15000	4.33952	0.00000	-149.99637	0.00129	364	365	366	73
366	-16.91100	-9.76500	-0.15000	4.33952	0.00000	-149.99637	0.00129	365	366	0	73
367	-1.82000	-1.18200	-0.15000	4.34029	0.00000	-146.99827	0.00129	-372	367	368	74
368	-5.46000	-3.54600	-0.15000	4.34029	0.00000	-146.99827	0.00129	367	368	369	74
369	-9.10000	-5.91000	-0.15000	4.34029	0.00000	-146.99827	0.00129	368	369	370	74
370	-12.74000	-8.27400	-0.15000	4.34029	0.00000	-146.99827	0.00129	369	370	371	74
371	-16.38000	-10.63800	-0.15000	4.34029	0.00000	-146.99827	0.00129	370	371	0	74
372	-1.75600	-1.27500	-0.15000	4.34012	0.00000	-144.01727	0.00129	-377	372	373	75
373	-5.26800	-3.82500	-0.15000	4.34012	0.00000	-144.01727	0.00129	372	373	374	75

374	-8.78000	-6.37500	-0.15000	4.34012	0.00000-144.01727	0.00129	373	374	375	75
375	-12.29200	-8.92500	-0.15000	4.34012	0.00000-144.01727	0.00129	374	375	376	75
376	-15.80400	-11.47500	-0.15000	4.34012	0.00000-144.01727	0.00129	375	376	0	75
377	-1.68600	-1.36600	-0.15000	4.33984	0.00000-140.98555	0.00129	-382	377	378	76
378	-5.05800	-4.09800	-0.15000	4.33984	0.00000-140.98555	0.00129	377	378	379	76
379	-8.43000	-6.83000	-0.15000	4.33984	0.00000-140.98555	0.00129	378	379	380	76
380	-11.80200	-9.56200	-0.15000	4.33984	0.00000-140.98555	0.00129	379	380	381	76
381	-15.17400	-12.29400	-0.15000	4.33984	0.00000-140.98555	0.00129	380	381	0	76
382	-1.61300	-1.45200	-0.15000	4.34054	0.00000-138.00690	0.00129	-387	382	383	77
383	-4.83900	-4.35600	-0.15000	4.34054	0.00000-138.00690	0.00129	382	383	384	77
384	-8.06500	-7.26000	-0.15000	4.34054	0.00000-138.00690	0.00129	383	384	385	77
385	-11.29100	-10.16400	-0.15000	4.34054	0.00000-138.00690	0.00129	384	385	386	77
386	-14.51700	-13.06800	-0.15000	4.34054	0.00000-138.00690	0.00129	385	386	0	77
387	-1.53400	-1.53400	-0.15000	4.33881	0.00000-135.00000	0.00129	-392	387	388	78
388	-4.60200	-4.60200	-0.15000	4.33881	0.00000-135.00000	0.00129	387	388	389	78
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390	-10.73800	-10.73800	-0.15000	4.33881	0.00000-135.00000	0.00129	389	390	391	78
391	-13.80600	-13.80600	-0.15000	4.33881	0.00000-135.00000	0.00129	390	391	0	78
392	-1.45200	-1.61300	-0.15000	4.34054	0.00000-131.99310	0.00129	-397	392	393	79
393	-4.35600	-4.83900	-0.15000	4.34054	0.00000-131.99310	0.00129	392	393	394	79
394	-7.26000	-8.06500	-0.15000	4.34054	0.00000-131.99310	0.00129	393	394	395	79
395	-10.16400	-11.29100	-0.15000	4.34054	0.00000-131.99310	0.00129	394	395	396	79
396	-13.06800	-14.51700	-0.15000	4.34054	0.00000-131.99310	0.00129	395	396	0	79
397	-1.36600	-1.68600	-0.15000	4.33984	0.00000-129.01445	0.00129	-402	397	398	80
398	-4.09800	-5.05800	-0.15000	4.33984	0.00000-129.01445	0.00129	397	398	399	80
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400	-9.56200	-11.80200	-0.15000	4.33984	0.00000-129.01445	0.00129	399	400	401	80
401	-12.29400	-15.17400	-0.15000	4.33984	0.00000-129.01445	0.00129	400	401	0	80
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405	-8.92500	-12.29200	-0.15000	4.34012	0.00000-125.98273	0.00129	404	405	406	81
406	-11.47500	-15.80400	-0.15000	4.34012	0.00000-125.98273	0.00129	405	406	0	81
407	-1.18200	-1.82000	-0.15000	4.34029	0.00000-123.00173	0.00129	-412	407	408	82
408	-3.54600	-5.46000	-0.15000	4.34029	0.00000-123.00173	0.00129	407	408	409	82
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410	-8.27400	-12.74000	-0.15000	4.34029	0.00000-123.00173	0.00129	409	410	411	82
411	-10.63800	-16.38000	-0.15000	4.34029	0.00000-123.00173	0.00129	410	411	0	82
412	-1.08500	-1.87900	-0.15000	4.33952	0.00000-120.00363	0.00129	-417	412	413	83
413	-3.25500	-5.63700	-0.15000	4.33952	0.00000-120.00363	0.00129	412	413	414	83
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415	-7.59500	-13.15300	-0.15000	4.33952	0.00000-120.00363	0.00129	414	415	416	83
416	-9.76500	-16.91100	-0.15000	4.33952	0.00000-120.00363	0.00129	415	416	0	83
417	-0.98500	-1.93300	-0.15000	4.33899	0.00000-117.00205	0.00129	-422	417	418	84
418	-2.95500	-5.79900	-0.15000	4.33899	0.00000-117.00205	0.00129	417	418	419	84
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420	-6.89500	-13.53100	-0.15000	4.33899	0.00000-117.00205	0.00129	419	420	421	84
421	-8.86500	-17.39700	-0.15000	4.33899	0.00000-117.00205	0.00129	420	421	0	84
422	-0.88300	-1.98200	-0.15000	4.33959	0.00000-114.01343	0.00129	-427	422	423	85
423	-2.64900	-5.94600	-0.15000	4.33959	0.00000-114.01343	0.00129	422	423	424	85
424	-4.41500	-9.91000	-0.15000	4.33959	0.00000-114.01343	0.00129	423	424	425	85
425	-6.18100	-13.87400	-0.15000	4.33959	0.00000-114.01343	0.00129	424	425	426	85
426	-7.94700	-17.83800	-0.15000	4.33959	0.00000-114.01343	0.00129	425	426	0	85
427	-0.77800	-2.02600	-0.15000	4.34049	0.00000-111.00718	0.00129	-432	427	428	86
428	-2.33400	-6.07800	-0.15000	4.34049	0.00000-111.00718	0.00129	427	428	429	86
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430	-5.44600	-14.18200	-0.15000	4.34049	0.00000-111.00718	0.00129	429	430	431	86
431	-7.00200	-18.23400	-0.15000	4.34049	0.00000-111.00718	0.00129	430	431	0	86
432	-0.67100	-2.06400	-0.15000	4.34066	0.00000-108.00918	0.00129	-437	432	433	87
433	-2.01300	-6.19200	-0.15000	4.34066	0.00000-108.00918	0.00129	432	433	434	87
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437	-0.56200	-2.09600	-0.15000	4.34007	0.00000-105.00965	0.00129	-442	437	438	88
438	-1.68600	-6.28800	-0.15000	4.34007	0.00000-105.00965	0.00129	437	438	439	88
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440	-3.93400	-14.67200	-0.15000	4.34007	0.00000-105.00965	0.00129	439	440	441	88
441	-5.05800	-18.86400	-0.15000	4.34007	0.00000-105.00965	0.00129	440	441	0	88
442	-0.45100	-2.12300	-0.15000	4.34075	0.00000-101.99335	0.00129	-447	442	443	89
443	-1.35300	-6.36900	-0.15000	4.34075	0.00000-101.99335	0.00129	442	443	444	89

444	-2.25500	-10.61500	-0.15000	4.34075	0.00000-101.99335	0.00129	443	444	445	89
445	-3.15700	-14.86100	-0.15000	4.34075	0.00000-101.99335	0.00129	444	445	446	89
446	-4.05900	-19.10700	-0.15000	4.34075	0.00000-101.99335	0.00129	445	446	0	89
447	-0.33900	-2.14300	-0.15000	4.33929	0.00000 -98.98910	0.00129	-452	447	448	90
448	-1.01700	-6.42900	-0.15000	4.33929	0.00000 -98.98910	0.00129	447	448	449	90
449	-1.69500	-10.71500	-0.15000	4.33929	0.00000 -98.98910	0.00129	448	449	450	90
450	-2.37300	-15.00100	-0.15000	4.33929	0.00000 -98.98910	0.00129	449	450	451	90
451	-3.05100	-19.28700	-0.15000	4.33929	0.00000 -98.98910	0.00129	450	451	0	90
452	-0.22700	-2.15800	-0.15000	4.33981	0.00000 -96.00486	0.00129	-457	452	453	91
453	-0.68100	-6.47400	-0.15000	4.33981	0.00000 -96.00486	0.00129	452	453	454	91
454	-1.13500	-10.79000	-0.15000	4.33981	0.00000 -96.00486	0.00129	453	454	455	91
455	-1.58900	-15.10600	-0.15000	4.33981	0.00000 -96.00486	0.00129	454	455	456	91
456	-2.04300	-19.42200	-0.15000	4.33981	0.00000 -96.00486	0.00129	455	456	0	91
457	-0.11400	-2.16700	-0.15000	4.33999	0.00000 -93.01140	0.00129	-462	457	458	92
458	-0.34200	-6.50100	-0.15000	4.33999	0.00000 -93.01140	0.00129	457	458	459	92
459	-0.57000	-10.83500	-0.15000	4.33999	0.00000 -93.01140	0.00129	458	459	460	92
460	-0.79800	-15.16900	-0.15000	4.33999	0.00000 -93.01140	0.00129	459	460	461	92
461	-1.02600	-19.50300	-0.15000	4.33999	0.00000 -93.01140	0.00129	460	461	0	92
462	0.00000	-2.17000	-0.15000	4.34000	0.00000 -90.00000	0.00129	-467	462	463	93
463	0.00000	-6.51000	-0.15000	4.34000	0.00000 -90.00000	0.00129	462	463	464	93
464	0.00000	-10.85000	-0.15000	4.34000	0.00000 -90.00000	0.00129	463	464	465	93
465	0.00000	-15.19000	-0.15000	4.34000	0.00000 -90.00000	0.00129	464	465	466	93
466	0.00000	-19.53000	-0.15000	4.34000	0.00000 -90.00000	0.00129	465	466	0	93
467	0.11400	-2.16700	-0.15000	4.33999	0.00000 -86.98860	0.00129	-472	467	468	94
468	0.34200	-6.50100	-0.15000	4.33999	0.00000 -86.98860	0.00129	467	468	469	94
469	0.57000	-10.83500	-0.15000	4.33999	0.00000 -86.98860	0.00129	468	469	470	94
470	0.79800	-15.16900	-0.15000	4.33999	0.00000 -86.98860	0.00129	469	470	471	94
471	1.02600	-19.50300	-0.15000	4.33999	0.00000 -86.98860	0.00129	470	471	0	94
472	0.22700	-2.15800	-0.15000	4.33981	0.00000 -83.99514	0.00129	-477	472	473	95
473	0.68100	-6.47400	-0.15000	4.33981	0.00000 -83.99514	0.00129	472	473	474	95
474	1.13500	-10.79000	-0.15000	4.33981	0.00000 -83.99514	0.00129	473	474	475	95
475	1.58900	-15.10600	-0.15000	4.33981	0.00000 -83.99514	0.00129	474	475	476	95
476	2.04300	-19.42200	-0.15000	4.33981	0.00000 -83.99514	0.00129	475	476	0	95
477	0.33900	-2.14300	-0.15000	4.33929	0.00000 -81.01090	0.00129	-482	477	478	96
478	1.01700	-6.42900	-0.15000	4.33929	0.00000 -81.01090	0.00129	477	478	479	96
479	1.69500	-10.71500	-0.15000	4.33929	0.00000 -81.01090	0.00129	478	479	480	96
480	2.37300	-15.00100	-0.15000	4.33929	0.00000 -81.01090	0.00129	479	480	481	96
481	3.05100	-19.28700	-0.15000	4.33929	0.00000 -81.01090	0.00129	480	481	0	96
482	0.45100	-2.12300	-0.15000	4.34075	0.00000 -78.00665	0.00129	-487	482	483	97
483	1.35300	-6.36900	-0.15000	4.34075	0.00000 -78.00665	0.00129	482	483	484	97
484	2.25500	-10.61500	-0.15000	4.34075	0.00000 -78.00665	0.00129	483	484	485	97
485	3.15700	-14.86100	-0.15000	4.34075	0.00000 -78.00665	0.00129	484	485	486	97
486	4.05900	-19.10700	-0.15000	4.34075	0.00000 -78.00665	0.00129	485	486	0	97
487	0.56200	-2.09600	-0.15000	4.34007	0.00000 -74.99035	0.00129	-492	487	488	98
488	1.68600	-6.28800	-0.15000	4.34007	0.00000 -74.99035	0.00129	487	488	489	98
489	2.81000	-10.48000	-0.15000	4.34007	0.00000 -74.99035	0.00129	488	489	490	98
490	3.93400	-14.67200	-0.15000	4.34007	0.00000 -74.99035	0.00129	489	490	491	98
491	5.05800	-18.86400	-0.15000	4.34007	0.00000 -74.99035	0.00129	490	491	0	98
492	0.67100	-2.06400	-0.15000	4.34066	0.00000 -71.99082	0.00129	-497	492	493	99
493	2.01300	-6.19200	-0.15000	4.34066	0.00000 -71.99082	0.00129	492	493	494	99
494	3.35500	-10.32000	-0.15000	4.34066	0.00000 -71.99082	0.00129	493	494	495	99
495	4.69700	-14.44800	-0.15000	4.34066	0.00000 -71.99082	0.00129	494	495	496	99
496	6.03900	-18.57600	-0.15000	4.34066	0.00000 -71.99082	0.00129	495	496	0	99
497	0.77800	-2.02600	-0.15000	4.34049	0.00000 -68.99282	0.00129	-502	497	498	100
498	2.33400	-6.07800	-0.15000	4.34049	0.00000 -68.99282	0.00129	497	498	499	100
499	3.89000	-10.13000	-0.15000	4.34049	0.00000 -68.99282	0.00129	498	499	500	100
500	5.44600	-14.18200	-0.15000	4.34049	0.00000 -68.99282	0.00129	499	500	501	100
501	7.00200	-18.23400	-0.15000	4.34049	0.00000 -68.99282	0.00129	500	501	0	100
502	0.88300	-1.98200	-0.15000	4.33959	0.00000 -65.98657	0.00129	-507	502	503	101
503	2.64900	-5.94600	-0.15000	4.33959	0.00000 -65.98657	0.00129	502	503	504	101
504	4.41500	-9.91000	-0.15000	4.33959	0.00000 -65.98657	0.00129	503	504	505	101
505	6.18100	-13.87400	-0.15000	4.33959	0.00000 -65.98657	0.00129	504	505	506	101
506	7.94700	-17.83800	-0.15000	4.33959	0.00000 -65.98657	0.00129	505	506	0	101
507	0.98500	-1.93300	-0.15000	4.33899	0.00000 -62.99795	0.00129	-512	507	508	102
508	2.95500	-5.79900	-0.15000	4.33899	0.00000 -62.99795	0.00129	507	508	509	102
509	4.92500	-9.66500	-0.15000	4.33899	0.00000 -62.99795	0.00129	508	509	510	102
510	6.89500	-13.53100	-0.15000	4.33899	0.00000 -62.99795	0.00129	509	510	511	102
511	8.86500	-17.39700	-0.15000	4.33899	0.00000 -62.99795	0.00129	510	511	0	102
512	1.08500	-1.87900	-0.15000	4.33952	0.00000 -59.99637	0.00129	-517	512	513	103
513	3.25500	-5.63700	-0.15000	4.33952	0.00000 -59.99637	0.00129	512	513	514	103

514	5.42500	-9.39500	-0.15000	4.33952	0.00000	-59.99637	0.00129	513	514	515	103
515	7.59500	-13.15300	-0.15000	4.33952	0.00000	-59.99637	0.00129	514	515	516	103
516	9.76500	-16.91100	-0.15000	4.33952	0.00000	-59.99637	0.00129	515	516	0	103
517	1.18200	-1.82000	-0.15000	4.34029	0.00000	-56.99827	0.00129	-522	517	518	104
518	3.54600	-5.46000	-0.15000	4.34029	0.00000	-56.99827	0.00129	517	518	519	104
519	5.91000	-9.10000	-0.15000	4.34029	0.00000	-56.99827	0.00129	518	519	520	104
520	8.27400	-12.74000	-0.15000	4.34029	0.00000	-56.99827	0.00129	519	520	521	104
521	10.63800	-16.38000	-0.15000	4.34029	0.00000	-56.99827	0.00129	520	521	0	104
522	1.27500	-1.75600	-0.15000	4.34012	0.00000	-54.01727	0.00129	-527	522	523	105
523	3.82500	-5.26800	-0.15000	4.34012	0.00000	-54.01727	0.00129	522	523	524	105
524	6.37500	-8.78000	-0.15000	4.34012	0.00000	-54.01727	0.00129	523	524	525	105
525	8.92500	-12.29200	-0.15000	4.34012	0.00000	-54.01727	0.00129	524	525	526	105
526	11.47500	-15.80400	-0.15000	4.34012	0.00000	-54.01727	0.00129	525	526	0	105
527	1.36600	-1.68600	-0.15000	4.33984	0.00000	-50.98555	0.00129	-532	527	528	106
528	4.09800	-5.05800	-0.15000	4.33984	0.00000	-50.98555	0.00129	527	528	529	106
529	6.83000	-8.43000	-0.15000	4.33984	0.00000	-50.98555	0.00129	528	529	530	106
530	9.56200	-11.80200	-0.15000	4.33984	0.00000	-50.98555	0.00129	529	530	531	106
531	12.29400	-15.17400	-0.15000	4.33984	0.00000	-50.98555	0.00129	530	531	0	106
532	1.45200	-1.61300	-0.15000	4.34054	0.00000	-48.00690	0.00129	-537	532	533	107
533	4.35600	-4.83900	-0.15000	4.34054	0.00000	-48.00690	0.00129	532	533	534	107
534	7.26000	-8.06500	-0.15000	4.34054	0.00000	-48.00690	0.00129	533	534	535	107
535	10.16400	-11.29100	-0.15000	4.34054	0.00000	-48.00690	0.00129	534	535	536	107
536	13.06800	-14.51700	-0.15000	4.34054	0.00000	-48.00690	0.00129	535	536	0	107
537	1.53400	-1.53400	-0.15000	4.33881	0.00000	-45.00000	0.00129	-542	537	538	108
538	4.60200	-4.60200	-0.15000	4.33881	0.00000	-45.00000	0.00129	537	538	539	108
539	7.67000	-7.67000	-0.15000	4.33881	0.00000	-45.00000	0.00129	538	539	540	108
540	10.73800	-10.73800	-0.15000	4.33881	0.00000	-45.00000	0.00129	539	540	541	108
541	13.80600	-13.80600	-0.15000	4.33881	0.00000	-45.00000	0.00129	540	541	0	108
542	1.61300	-1.45200	-0.15000	4.34054	0.00000	-41.99310	0.00129	-547	542	543	109
543	4.83900	-4.35600	-0.15000	4.34054	0.00000	-41.99310	0.00129	542	543	544	109
544	8.06500	-7.26000	-0.15000	4.34054	0.00000	-41.99310	0.00129	543	544	545	109
545	11.29100	-10.16400	-0.15000	4.34054	0.00000	-41.99310	0.00129	544	545	546	109
546	14.51700	-13.06800	-0.15000	4.34054	0.00000	-41.99310	0.00129	545	546	0	109
547	1.68600	-1.36600	-0.15000	4.33984	0.00000	-39.01445	0.00129	-552	547	548	110
548	5.05800	-4.09800	-0.15000	4.33984	0.00000	-39.01445	0.00129	547	548	549	110
549	8.43000	-6.83000	-0.15000	4.33984	0.00000	-39.01445	0.00129	548	549	550	110
550	11.80200	-9.56200	-0.15000	4.33984	0.00000	-39.01445	0.00129	549	550	551	110
551	15.17400	-12.29400	-0.15000	4.33984	0.00000	-39.01445	0.00129	550	551	0	110
552	1.75600	-1.27500	-0.15000	4.34012	0.00000	-35.98273	0.00129	-557	552	553	111
553	5.26800	-3.82500	-0.15000	4.34012	0.00000	-35.98273	0.00129	552	553	554	111
554	8.78000	-6.37500	-0.15000	4.34012	0.00000	-35.98273	0.00129	553	554	555	111
555	12.29200	-8.92500	-0.15000	4.34012	0.00000	-35.98273	0.00129	554	555	556	111
556	15.80400	-11.47500	-0.15000	4.34012	0.00000	-35.98273	0.00129	555	556	0	111
557	1.82000	-1.18200	-0.15000	4.34029	0.00000	-33.00173	0.00129	-562	557	558	112
558	5.46000	-3.54600	-0.15000	4.34029	0.00000	-33.00173	0.00129	557	558	559	112
559	9.10000	-5.91000	-0.15000	4.34029	0.00000	-33.00173	0.00129	558	559	560	112
560	12.74000	-8.27400	-0.15000	4.34029	0.00000	-33.00173	0.00129	559	560	561	112
561	16.38000	-10.63800	-0.15000	4.34029	0.00000	-33.00173	0.00129	560	561	0	112
562	1.87900	-1.08500	-0.15000	4.33952	0.00000	-30.00363	0.00129	-567	562	563	113
563	5.63700	-3.25500	-0.15000	4.33952	0.00000	-30.00363	0.00129	562	563	564	113
564	9.39500	-5.42500	-0.15000	4.33952	0.00000	-30.00363	0.00129	563	564	565	113
565	13.15300	-7.59500	-0.15000	4.33952	0.00000	-30.00363	0.00129	564	565	566	113
566	16.91100	-9.76500	-0.15000	4.33952	0.00000	-30.00363	0.00129	565	566	0	113
567	1.93300	-0.98500	-0.15000	4.33899	0.00000	-27.00205	0.00129	-572	567	568	114
568	5.79900	-2.95500	-0.15000	4.33899	0.00000	-27.00205	0.00129	567	568	569	114
569	9.66500	-4.92500	-0.15000	4.33899	0.00000	-27.00205	0.00129	568	569	570	114
570	13.53100	-6.89500	-0.15000	4.33899	0.00000	-27.00205	0.00129	569	570	571	114
571	17.39700	-8.86500	-0.15000	4.33899	0.00000	-27.00205	0.00129	570	571	0	114
572	1.98200	-0.88300	-0.15000	4.33959	0.00000	-24.01343	0.00129	-577	572	573	115
573	5.94600	-2.64900	-0.15000	4.33959	0.00000	-24.01343	0.00129	572	573	574	115
574	9.91000	-4.41500	-0.15000	4.33959	0.00000	-24.01343	0.00129	573	574	575	115
575	13.87400	-6.18100	-0.15000	4.33959	0.00000	-24.01343	0.00129	574	575	576	115
576	17.83800	-7.94700	-0.15000	4.33959	0.00000	-24.01343	0.00129	575	576	0	115
577	2.02600	-0.77800	-0.15000	4.34049	0.00000	-21.00718	0.00129	-582	577	578	116
578	6.07800	-2.33400	-0.15000	4.34049	0.00000	-21.00718	0.00129	577	578	579	116
579	10.13000	-3.89000	-0.15000	4.34049	0.00000	-21.00718	0.00129	578	579	580	116
580	14.18200	-5.44600	-0.15000	4.34049	0.00000	-21.00718	0.00129	579	580	581	116
581	18.23400	-7.00200	-0.15000	4.34049	0.00000	-21.00718	0.00129	580	581	0	116
582	2.06400	-0.67100	-0.15000	4.34066	0.00000	-18.00918	0.00129	-587	582	583	117
583	6.19200	-2.01300	-0.15000	4.34066	0.00000	-18.00918	0.00129	582	583	584	117

584	10.32000	-3.35500	-0.15000	4.34066	0.00000	-18.00918	0.00129	583	584	585	117
585	14.44800	-4.69700	-0.15000	4.34066	0.00000	-18.00918	0.00129	584	585	586	117
586	18.57600	-6.03900	-0.15000	4.34066	0.00000	-18.00918	0.00129	585	586	0	117
587	2.09600	-0.56200	-0.15000	4.34007	0.00000	-15.00965	0.00129	-592	587	588	118
588	6.28800	-1.68600	-0.15000	4.34007	0.00000	-15.00965	0.00129	587	588	589	118
589	10.48000	-2.81000	-0.15000	4.34007	0.00000	-15.00965	0.00129	588	589	590	118
590	14.67200	-3.93400	-0.15000	4.34007	0.00000	-15.00965	0.00129	589	590	591	118
591	18.86400	-5.05800	-0.15000	4.34007	0.00000	-15.00965	0.00129	590	591	0	118
592	2.12300	-0.45100	-0.15000	4.34075	0.00000	-11.99335	0.00129	-597	592	593	119
593	6.36900	-1.35300	-0.15000	4.34075	0.00000	-11.99335	0.00129	592	593	594	119
594	10.61500	-2.25500	-0.15000	4.34075	0.00000	-11.99335	0.00129	593	594	595	119
595	14.86100	-3.15700	-0.15000	4.34075	0.00000	-11.99335	0.00129	594	595	596	119
596	19.10700	-4.05900	-0.15000	4.34075	0.00000	-11.99335	0.00129	595	596	0	119
597	2.14300	-0.33900	-0.15000	4.33929	0.00000	-8.98910	0.00129	-602	597	598	120
598	6.42900	-1.01700	-0.15000	4.33929	0.00000	-8.98910	0.00129	597	598	599	120
599	10.71500	-1.69500	-0.15000	4.33929	0.00000	-8.98910	0.00129	598	599	600	120
600	15.00100	-2.37300	-0.15000	4.33929	0.00000	-8.98910	0.00129	599	600	601	120
601	19.28700	-3.05100	-0.15000	4.33929	0.00000	-8.98910	0.00129	600	601	0	120
602	2.15800	-0.22700	-0.15000	4.33981	0.00000	-6.00486	0.00129	-607	602	603	121
603	6.47400	-0.68100	-0.15000	4.33981	0.00000	-6.00486	0.00129	602	603	604	121
604	10.79000	-1.13500	-0.15000	4.33981	0.00000	-6.00486	0.00129	603	604	605	121
605	15.10600	-1.58900	-0.15000	4.33981	0.00000	-6.00486	0.00129	604	605	606	121
606	19.42200	-2.04300	-0.15000	4.33981	0.00000	-6.00486	0.00129	605	606	0	121
607	2.16700	-0.11400	-0.15000	4.33999	0.00000	-3.01140	0.00129	11	607	608	122
608	6.50100	-0.34200	-0.15000	4.33999	0.00000	-3.01140	0.00129	607	608	609	122
609	10.83500	-0.57000	-0.15000	4.33999	0.00000	-3.01140	0.00129	608	609	610	122
610	15.16900	-0.79800	-0.15000	4.33999	0.00000	-3.01140	0.00129	609	610	611	122
611	19.50300	-1.02600	-0.15000	4.33999	0.00000	-3.01140	0.00129	610	611	0	122

*****	INPUT LINE	1	GN	2	0	0	0	1.50000E+01	4.00000E-03	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
*****	INPUT LINE	2	EX	0	1	1	0	1.00000E+03	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
*****	INPUT LINE	3	LD	5	1	1	10	5.80010E+07	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
*****	INPUT LINE	4	LD	5	2	1	1	5.80010E+07	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
*****	INPUT LINE	5	LD	5	3	1	5	5.80010E+07	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
*****	INPUT LINE	6	LD	5	4	1	5	5.80010E+07	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
*****	INPUT LINE	7	LD	5	5	1	5	5.80010E+07	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
*****	INPUT LINE	8	LD	5	6	1	5	5.80010E+07	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
*****	INPUT LINE	9	LD	5	7	1	5	5.80010E+07	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
*****	INPUT LINE	10	LD	5	8	1	5	5.80010E+07	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
*****	INPUT LINE	11	LD	5	9	1	5	5.80010E+07	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
*****	INPUT LINE	12	LD	5	10	1	5	5.80010E+07	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
*****	INPUT LINE	13	LD	5	11	1	5	5.80010E+07	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
*****	INPUT LINE	14	LD	5	12	1	5	5.80010E+07	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
*****	INPUT LINE	15	LD	5	13	1	5	5.80010E+07	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
*****	INPUT LINE	16	LD	5	14	1	5	5.80010E+07	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
*****	INPUT LINE	17	LD	5	15	1	5	5.80010E+07	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
*****	INPUT LINE	18	LD	5	16	1	5	5.80010E+07	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
*****	INPUT LINE	19	LD	5	17	1	5	5.80010E+07	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
*****	INPUT LINE	20	LD	5	18	1	5	5.80010E+07	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
*****	INPUT LINE	21	LD	5	19	1	5	5.80010E+07	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
*****	INPUT LINE	22	LD	5	20	1	5	5.80010E+07	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
*****	INPUT LINE	23	LD	5	21	1	5	5.80010E+07	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
*****	INPUT LINE	24	LD	5	22	1	5	5.80010E+07	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
*****	INPUT LINE	25	LD	5	23	1	5	5.80010E+07	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
*****	INPUT LINE	26	LD	5	24	1	5	5.80010E+07	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
*****	INPUT LINE	27	LD	5	25	1	5	5.80010E+07	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
*****	INPUT LINE	28	LD	5	26	1	5	5.80010E+07	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
*****	INPUT LINE	29	LD	5	27	1	5	5.80010E+07	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
*****	INPUT LINE	30	LD	5	28	1	5	5.80010E+07	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
*****	INPUT LINE	31	LD	5	29	1	5	5.80010E+07	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
*****	INPUT LINE	32	LD	5	30	1	5	5.80010E+07	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
*****	INPUT LINE	33	LD	5	31	1	5	5.80010E+07	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
*****	INPUT LINE	34	LD	5	32	1	5	5.80010E+07	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
*****	INPUT LINE	35	LD	5	33	1	5	5.80010E+07	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
*****	INPUT LINE	36	LD	5	34	1	5	5.80010E+07	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
*****	INPUT LINE	37	LD	5	35	1	5	5.80010E+07	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
*****	INPUT LINE	38	LD	5	36	1	5	5.80010E+07	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00

[illegible]

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***** INPUT LINE 109 LD 5 107 1 5 5.80010E+07 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00
***** INPUT LINE 110 LD 5 108 1 5 5.80010E+07 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00
***** INPUT LINE 111 LD 5 109 1 5 5.80010E+07 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00
***** INPUT LINE 112 LD 5 110 1 5 5.80010E+07 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00
***** INPUT LINE 113 LD 5 111 1 5 5.80010E+07 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00
***** INPUT LINE 114 LD 5 112 1 5 5.80010E+07 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00
***** INPUT LINE 115 LD 5 113 1 5 5.80010E+07 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00
***** INPUT LINE 116 LD 5 114 1 5 5.80010E+07 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00
***** INPUT LINE 117 LD 5 115 1 5 5.80010E+07 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00
***** INPUT LINE 118 LD 5 116 1 5 5.80010E+07 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00
***** INPUT LINE 119 LD 5 117 1 5 5.80010E+07 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00
***** INPUT LINE 120 LD 5 118 1 5 5.80010E+07 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00
***** INPUT LINE 121 LD 5 119 1 5 5.80010E+07 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00
***** INPUT LINE 122 LD 5 120 1 5 5.80010E+07 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00
***** INPUT LINE 123 LD 5 121 1 5 5.80010E+07 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00
***** INPUT LINE 124 LD 5 122 1 5 5.80010E+07 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00
***** INPUT LINE 125 FR 0 1 0 0 1.22000E+00 1.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00
***** INPUT LINE 126 NE 0 1 1 1 1.00000E+03 0.00000E+00 1.00000E-01 0.00000E+00 0.00000E+00 0.00000E+00

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- - - - - FREQUENCY - - - - -

FREQUENCY= 1.2200E+00 MHZ
WAVELENGTH= 2.4574E+02 METERS

- - - ANTENNA ENVIRONMENT - - -

WILL COMPUTE SOMMERFELD-GROUND TABLES

Time to generate Sommerfeld ground tables = 0.09 seconds

FINITE GROUND. SOMMERFELD SOLUTION
RELATIVE DIELECTRIC CONST.= 15.000
CONDUCTIVITY= 4.000E-03 MHOS/METER
COMPLEX DIELECTRIC CONSTANT= 1.50000E+01-5.89360E+01

- - - STRUCTURE IMPEDANCE LOADING - - -

LOCATION			RESISTANCE	INDUCTANCE	CAPACITANCE	IMPEDANCE (OHMS)		CONDUCTIVITY	TYPE
ITAG	FROM	THRU	OHMS	HENRYS	FARADS	REAL	IMAGINARY	MHOS/METER	
1	1	10						5.8001E+07	WIRE
2	1	1						5.8001E+07	WIRE
3	1	5						5.8001E+07	WIRE
4	1	5						5.8001E+07	WIRE
5	1	5						5.8001E+07	WIRE
6	1	5						5.8001E+07	WIRE
7	1	5						5.8001E+07	WIRE
8	1	5						5.8001E+07	WIRE
9	1	5						5.8001E+07	WIRE
10	1	5						5.8001E+07	WIRE
11	1	5						5.8001E+07	WIRE

12	1	5	5.8001E+07	WIRE
13	1	5	5.8001E+07	WIRE
14	1	5	5.8001E+07	WIRE
15	1	5	5.8001E+07	WIRE
16	1	5	5.8001E+07	WIRE
17	1	5	5.8001E+07	WIRE
18	1	5	5.8001E+07	WIRE
19	1	5	5.8001E+07	WIRE
20	1	5	5.8001E+07	WIRE
21	1	5	5.8001E+07	WIRE
22	1	5	5.8001E+07	WIRE
23	1	5	5.8001E+07	WIRE
24	1	5	5.8001E+07	WIRE
25	1	5	5.8001E+07	WIRE
26	1	5	5.8001E+07	WIRE
27	1	5	5.8001E+07	WIRE
28	1	5	5.8001E+07	WIRE
29	1	5	5.8001E+07	WIRE
30	1	5	5.8001E+07	WIRE
31	1	5	5.8001E+07	WIRE
32	1	5	5.8001E+07	WIRE
33	1	5	5.8001E+07	WIRE
34	1	5	5.8001E+07	WIRE
35	1	5	5.8001E+07	WIRE
36	1	5	5.8001E+07	WIRE
37	1	5	5.8001E+07	WIRE
38	1	5	5.8001E+07	WIRE
39	1	5	5.8001E+07	WIRE
40	1	5	5.8001E+07	WIRE
41	1	5	5.8001E+07	WIRE
42	1	5	5.8001E+07	WIRE
43	1	5	5.8001E+07	WIRE
44	1	5	5.8001E+07	WIRE
45	1	5	5.8001E+07	WIRE
46	1	5	5.8001E+07	WIRE

47	1	5	5.8001E+07	WIRE
48	1	5	5.8001E+07	WIRE
49	1	5	5.8001E+07	WIRE
50	1	5	5.8001E+07	WIRE
51	1	5	5.8001E+07	WIRE
52	1	5	5.8001E+07	WIRE
53	1	5	5.8001E+07	WIRE
54	1	5	5.8001E+07	WIRE
55	1	5	5.8001E+07	WIRE
56	1	5	5.8001E+07	WIRE
57	1	5	5.8001E+07	WIRE
58	1	5	5.8001E+07	WIRE
59	1	5	5.8001E+07	WIRE
60	1	5	5.8001E+07	WIRE
61	1	5	5.8001E+07	WIRE
62	1	5	5.8001E+07	WIRE
63	1	5	5.8001E+07	WIRE
64	1	5	5.8001E+07	WIRE
65	1	5	5.8001E+07	WIRE
66	1	5	5.8001E+07	WIRE
67	1	5	5.8001E+07	WIRE
68	1	5	5.8001E+07	WIRE
69	1	5	5.8001E+07	WIRE
70	1	5	5.8001E+07	WIRE
71	1	5	5.8001E+07	WIRE
72	1	5	5.8001E+07	WIRE
73	1	5	5.8001E+07	WIRE
74	1	5	5.8001E+07	WIRE
75	1	5	5.8001E+07	WIRE
76	1	5	5.8001E+07	WIRE
77	1	5	5.8001E+07	WIRE
78	1	5	5.8001E+07	WIRE
79	1	5	5.8001E+07	WIRE
80	1	5	5.8001E+07	WIRE
81	1	5	5.8001E+07	WIRE

82	1	5	5.8001E+07	WIRE
83	1	5	5.8001E+07	WIRE
84	1	5	5.8001E+07	WIRE
85	1	5	5.8001E+07	WIRE
86	1	5	5.8001E+07	WIRE
87	1	5	5.8001E+07	WIRE
88	1	5	5.8001E+07	WIRE
89	1	5	5.8001E+07	WIRE
90	1	5	5.8001E+07	WIRE
91	1	5	5.8001E+07	WIRE
92	1	5	5.8001E+07	WIRE
93	1	5	5.8001E+07	WIRE
94	1	5	5.8001E+07	WIRE
95	1	5	5.8001E+07	WIRE
96	1	5	5.8001E+07	WIRE
97	1	5	5.8001E+07	WIRE
98	1	5	5.8001E+07	WIRE
99	1	5	5.8001E+07	WIRE
100	1	5	5.8001E+07	WIRE
101	1	5	5.8001E+07	WIRE
102	1	5	5.8001E+07	WIRE
103	1	5	5.8001E+07	WIRE
104	1	5	5.8001E+07	WIRE
105	1	5	5.8001E+07	WIRE
106	1	5	5.8001E+07	WIRE
107	1	5	5.8001E+07	WIRE
108	1	5	5.8001E+07	WIRE
109	1	5	5.8001E+07	WIRE
110	1	5	5.8001E+07	WIRE
111	1	5	5.8001E+07	WIRE
112	1	5	5.8001E+07	WIRE
113	1	5	5.8001E+07	WIRE
114	1	5	5.8001E+07	WIRE
115	1	5	5.8001E+07	WIRE
116	1	5	5.8001E+07	WIRE

117	1	5	5.8001E+07	WIRE
118	1	5	5.8001E+07	WIRE
119	1	5	5.8001E+07	WIRE
120	1	5	5.8001E+07	WIRE
121	1	5	5.8001E+07	WIRE
122	1	5	5.8001E+07	WIRE

- - - MATRIX TIMING - - -

FILL= 5.190 SEC., FACTOR= 0.220 SEC.

- - - ANTENNA INPUT PARAMETERS - - -

TAG NO.	SEG. NO.	VOLTAGE (VOLTS)		CURRENT (AMPS)		IMPEDANCE (OHMS)		ADMITTANCE (MHOS)		POWER (WATTS)
		REAL	IMAG.	REAL	IMAG.	REAL	IMAG.	REAL	IMAG.	
1	1	1.00000E+03	0.00000E+00	7.92655E+00	1.19867E+01	3.83831E+01	-5.80438E+01	7.92655E-03	1.19867E-02	3.96328E+03

- - - CURRENTS AND LOCATION - - -

LENGTHS NORMALIZED BY WAVELENGTH (OR 2.*PI/CABS(K))

SEG. NO.	TAG NO.	COORD. OF SEG. CENTER			SEG. LENGTH	- - - CURRENT (AMPS) - - -				PHASE
		X	Y	Z		REAL	IMAG.	MAG.		
1	1	0.0000	0.0000	0.0115	0.02291	7.9266E+00	1.1987E+01	1.4371E+01	56.524	
2	1	0.0000	0.0000	0.0344	0.02291	7.7380E+00	1.1507E+01	1.3867E+01	56.082	
3	1	0.0000	0.0000	0.0573	0.02291	7.3702E+00	1.0786E+01	1.3064E+01	55.655	
4	1	0.0000	0.0000	0.0802	0.02291	6.8311E+00	9.8622E+00	1.1997E+01	55.291	
5	1	0.0000	0.0000	0.1031	0.02291	6.1318E+00	8.7483E+00	1.0683E+01	54.973	
6	1	0.0000	0.0000	0.1260	0.02291	5.2857E+00	7.4622E+00	9.1446E+00	54.689	
7	1	0.0000	0.0000	0.1489	0.02291	4.3083E+00	6.0248E+00	7.4067E+00	54.432	
8	1	0.0000	0.0000	0.1718	0.02291	3.2156E+00	4.4578E+00	5.4966E+00	54.195	
9	1	0.0000	0.0000	0.1947	0.02291	2.0215E+00	2.7799E+00	3.4372E+00	53.975	
10	1	0.0000	0.0000	0.2177	0.02291	7.1887E-01	9.8115E-01	1.2163E+00	53.770	
11	2	0.0000	0.0000	-0.0024	0.00476	-7.9569E+00	-1.2052E+01	1.4442E+01	-123.432	
12	3	0.0689	0.0000	-0.0048	0.13773	-6.7002E-02	-1.0004E-01	1.2041E-01	-123.811	
13	3	0.2066	0.0000	-0.0048	0.13773	-6.9460E-02	-9.7810E-02	1.1996E-01	-125.381	
14	3	0.3443	0.0000	-0.0048	0.13773	-6.9066E-02	-9.5197E-02	1.1761E-01	-125.961	
15	3	0.4820	0.0000	-0.0048	0.13773	-5.8793E-02	-8.9150E-02	1.0679E-01	-123.404	
16	3	0.6198	0.0000	-0.0048	0.13773	-2.8268E-02	-5.5878E-02	6.2621E-02	-116.834	
17	4	0.0688	0.0036	-0.0048	0.13773	-6.6947E-02	-9.9943E-02	1.2029E-01	-123.816	
18	4	0.2063	0.0109	-0.0048	0.13773	-6.9396E-02	-9.7720E-02	1.1985E-01	-125.381	
19	4	0.3438	0.0181	-0.0048	0.13773	-6.8995E-02	-9.5118E-02	1.1751E-01	-125.956	
20	4	0.4814	0.0253	-0.0048	0.13773	-5.8730E-02	-8.9077E-02	1.0670E-01	-123.397	
21	4	0.6189	0.0326	-0.0048	0.13773	-2.8239E-02	-5.5832E-02	6.2567E-02	-116.830	
22	5	0.0685	0.0072	-0.0048	0.13772	-6.6873E-02	-9.9809E-02	1.2014E-01	-123.822	
23	5	0.2054	0.0216	-0.0048	0.13772	-6.9301E-02	-9.7602E-02	1.1970E-01	-125.376	
24	5	0.3424	0.0360	-0.0048	0.13772	-6.8880E-02	-9.5010E-02	1.1735E-01	-125.941	
25	5	0.4794	0.0504	-0.0048	0.13772	-5.8619E-02	-8.8969E-02	1.0654E-01	-123.380	
26	5	0.6163	0.0648	-0.0048	0.13772	-2.8183E-02	-5.5752E-02	6.2471E-02	-116.817	
27	6	0.0680	0.0108	-0.0048	0.13771	-6.6923E-02	-9.9909E-02	1.2025E-01	-123.816	
28	6	0.2040	0.0323	-0.0048	0.13771	-6.9333E-02	-9.7696E-02	1.1980E-01	-125.363	
29	6	0.3400	0.0538	-0.0048	0.13771	-6.8879E-02	-9.5087E-02	1.1741E-01	-125.919	
30	6	0.4761	0.0753	-0.0048	0.13771	-5.8581E-02	-8.9002E-02	1.0655E-01	-123.353	
31	6	0.6121	0.0968	-0.0048	0.13771	-2.8143E-02	-5.5728E-02	6.2431E-02	-116.794	
32	7	0.0674	0.0143	-0.0048	0.13775	-6.6984E-02	-9.9995E-02	1.2036E-01	-123.817	
33	7	0.2021	0.0429	-0.0048	0.13775	-6.9468E-02	-9.7762E-02	1.1993E-01	-125.397	
34	7	0.3369	0.0716	-0.0048	0.13775	-6.9113E-02	-9.5164E-02	1.1761E-01	-125.989	
35	7	0.4716	0.1002	-0.0048	0.13775	-5.8872E-02	-8.9159E-02	1.0684E-01	-123.437	
36	7	0.6064	0.1288	-0.0048	0.13775	-2.8327E-02	-5.5927E-02	6.2692E-02	-116.862	

37	8	0.0665	0.0178	-0.0048	0.13773	-6.7004E-02	-1.0003E-01	1.2040E-01	-123.816
38	8	0.1995	0.0535	-0.0048	0.13773	-6.9454E-02	-9.7803E-02	1.1996E-01	-125.380
39	8	0.3326	0.0892	-0.0048	0.13773	-6.9043E-02	-9.5195E-02	1.1760E-01	-125.952
40	8	0.4656	0.1248	-0.0048	0.13773	-5.8755E-02	-8.9137E-02	1.0676E-01	-123.391
41	8	0.5986	0.1605	-0.0048	0.13773	-2.8240E-02	-5.5849E-02	6.2583E-02	-116.823
42	9	0.0655	0.0213	-0.0048	0.13775	-6.6939E-02	-9.9905E-02	1.2026E-01	-123.823
43	9	0.1965	0.0639	-0.0048	0.13775	-6.9403E-02	-9.7686E-02	1.1983E-01	-125.393
44	9	0.3275	0.1065	-0.0048	0.13775	-6.9022E-02	-9.5096E-02	1.1750E-01	-125.973
45	9	0.4585	0.1491	-0.0048	0.13775	-5.8773E-02	-8.9082E-02	1.0672E-01	-123.415
46	9	0.5895	0.1916	-0.0048	0.13775	-2.8269E-02	-5.5856E-02	6.2602E-02	-116.844
47	10	0.0643	0.0247	-0.0048	0.13774	-6.6934E-02	-9.9902E-02	1.2025E-01	-123.822
48	10	0.1929	0.0741	-0.0048	0.13774	-6.9396E-02	-9.7682E-02	1.1982E-01	-125.391
49	10	0.3215	0.1234	-0.0048	0.13774	-6.9016E-02	-9.5091E-02	1.1750E-01	-125.972
50	10	0.4501	0.1728	-0.0048	0.13774	-5.8768E-02	-8.9077E-02	1.0672E-01	-123.415
51	10	0.5786	0.2222	-0.0048	0.13774	-2.8268E-02	-5.5855E-02	6.2601E-02	-116.843
52	11	0.0629	0.0280	-0.0048	0.13772	-6.6912E-02	-9.9893E-02	1.2023E-01	-123.816
53	11	0.1887	0.0841	-0.0048	0.13772	-6.9343E-02	-9.7675E-02	1.1979E-01	-125.372
54	11	0.3145	0.1401	-0.0048	0.13772	-6.8919E-02	-9.5071E-02	1.1742E-01	-125.939
55	11	0.4403	0.1962	-0.0048	0.13772	-5.8646E-02	-8.9016E-02	1.0660E-01	-123.378
56	11	0.5661	0.2522	-0.0048	0.13772	-2.8191E-02	-5.5774E-02	6.2493E-02	-116.814
57	12	0.0613	0.0313	-0.0048	0.13770	-6.6902E-02	-9.9895E-02	1.2023E-01	-123.811
58	12	0.1840	0.0938	-0.0048	0.13770	-6.9312E-02	-9.7678E-02	1.1977E-01	-125.359
59	12	0.3067	0.1563	-0.0048	0.13770	-6.8860E-02	-9.5064E-02	1.1738E-01	-125.918
60	12	0.4294	0.2188	-0.0048	0.13770	-5.8567E-02	-8.8980E-02	1.0653E-01	-123.353
61	12	0.5521	0.2813	-0.0048	0.13770	-2.8140E-02	-5.5721E-02	6.2424E-02	-116.794
62	13	0.0596	0.0344	-0.0048	0.13771	-6.6906E-02	-9.9888E-02	1.2023E-01	-123.815
63	13	0.1789	0.1033	-0.0048	0.13771	-6.9338E-02	-9.7669E-02	1.1978E-01	-125.372
64	13	0.2981	0.1722	-0.0048	0.13771	-6.8917E-02	-9.5064E-02	1.1742E-01	-125.940
65	13	0.4174	0.2410	-0.0048	0.13771	-5.8647E-02	-8.9011E-02	1.0659E-01	-123.380
66	13	0.5367	0.3099	-0.0048	0.13771	-2.8193E-02	-5.5775E-02	6.2496E-02	-116.816
67	14	0.0578	0.0375	-0.0048	0.13774	-6.6863E-02	-9.9787E-02	1.2012E-01	-123.824
68	14	0.1733	0.1125	-0.0048	0.13774	-6.9310E-02	-9.7577E-02	1.1969E-01	-125.387
69	14	0.2888	0.1876	-0.0048	0.13774	-6.8919E-02	-9.4993E-02	1.1736E-01	-125.961
70	14	0.4043	0.2626	-0.0048	0.13774	-5.8679E-02	-8.8981E-02	1.0659E-01	-123.403
71	14	0.5198	0.3376	-0.0048	0.13774	-2.8225E-02	-5.5792E-02	6.2525E-02	-116.835
72	15	0.0557	0.0405	-0.0048	0.13773	-6.6952E-02	-9.9955E-02	1.2031E-01	-123.815
73	15	0.1672	0.1214	-0.0048	0.13773	-6.9410E-02	-9.7727E-02	1.1987E-01	-125.384
74	15	0.2786	0.2023	-0.0048	0.13773	-6.9016E-02	-9.5124E-02	1.1752E-01	-125.962
75	15	0.3901	0.2832	-0.0048	0.13773	-5.8753E-02	-8.9090E-02	1.0672E-01	-123.404
76	15	0.5015	0.3642	-0.0048	0.13773	-2.8252E-02	-5.5847E-02	6.2587E-02	-116.834
77	16	0.0535	0.0433	-0.0048	0.13772	-6.6964E-02	-9.9970E-02	1.2033E-01	-123.816
78	16	0.1605	0.1300	-0.0048	0.13772	-6.9407E-02	-9.7747E-02	1.1988E-01	-125.377
79	16	0.2675	0.2167	-0.0048	0.13772	-6.8993E-02	-9.5142E-02	1.1752E-01	-125.948
80	16	0.3745	0.3034	-0.0048	0.13772	-5.8712E-02	-8.9088E-02	1.0669E-01	-123.386
81	16	0.4815	0.3901	-0.0048	0.13772	-2.8222E-02	-5.5822E-02	6.2550E-02	-116.820
82	17	0.0512	0.0461	-0.0048	0.13775	-6.6882E-02	-9.9820E-02	1.2016E-01	-123.823
83	17	0.1536	0.1382	-0.0048	0.13775	-6.9344E-02	-9.7603E-02	1.1973E-01	-125.392
84	17	0.2559	0.2304	-0.0048	0.13775	-6.8976E-02	-9.5016E-02	1.1741E-01	-125.977
85	17	0.3583	0.3226	-0.0048	0.13775	-5.8754E-02	-8.9016E-02	1.0666E-01	-123.426
86	17	0.4607	0.4147	-0.0048	0.13775	-2.8270E-02	-5.5836E-02	6.2584E-02	-116.853
87	18	0.0487	0.0487	-0.0048	0.13769	-6.6981E-02	-1.0004E-01	1.2039E-01	-123.805
88	18	0.1460	0.1460	-0.0048	0.13769	-6.9393E-02	-9.7811E-02	1.1993E-01	-125.354
89	18	0.2434	0.2434	-0.0048	0.13769	-6.8922E-02	-9.5184E-02	1.1752E-01	-125.908
90	18	0.3408	0.3408	-0.0048	0.13769	-5.8593E-02	-8.9069E-02	1.0661E-01	-123.339
91	18	0.4381	0.4381	-0.0048	0.13769	-2.8135E-02	-5.5744E-02	6.2442E-02	-116.781
92	19	0.0461	0.0512	-0.0048	0.13775	-6.6882E-02	-9.9820E-02	1.2016E-01	-123.823
93	19	0.1382	0.1536	-0.0048	0.13775	-6.9344E-02	-9.7603E-02	1.1973E-01	-125.392
94	19	0.2304	0.2559	-0.0048	0.13775	-6.8976E-02	-9.5016E-02	1.1741E-01	-125.977
95	19	0.3226	0.3583	-0.0048	0.13775	-5.8754E-02	-8.9016E-02	1.0666E-01	-123.426
96	19	0.4147	0.4607	-0.0048	0.13775	-2.8270E-02	-5.5836E-02	6.2584E-02	-116.853
97	20	0.0433	0.0535	-0.0048	0.13772	-6.6964E-02	-9.9970E-02	1.2033E-01	-123.816
98	20	0.1300	0.1605	-0.0048	0.13772	-6.9407E-02	-9.7747E-02	1.1988E-01	-125.377
99	20	0.2167	0.2675	-0.0048	0.13772	-6.8993E-02	-9.5142E-02	1.1752E-01	-125.948
100	20	0.3034	0.3745	-0.0048	0.13772	-5.8712E-02	-8.9088E-02	1.0669E-01	-123.386
101	20	0.3901	0.4815	-0.0048	0.13772	-2.8222E-02	-5.5822E-02	6.2550E-02	-116.820
102	21	0.0405	0.0557	-0.0048	0.13773	-6.6952E-02	-9.9955E-02	1.2031E-01	-123.815
103	21	0.1214	0.1672	-0.0048	0.13773	-6.9410E-02	-9.7727E-02	1.1987E-01	-125.384
104	21	0.2023	0.2786	-0.0048	0.13773	-6.9016E-02	-9.5124E-02	1.1752E-01	-125.962
105	21	0.2832	0.3901	-0.0048	0.13773	-5.8753E-02	-8.9090E-02	1.0672E-01	-123.404
106	21	0.3642	0.5015	-0.0048	0.13773	-2.8252E-02	-5.5847E-02	6.2587E-02	-116.834

107	22	0.0375	0.0578	-0.0048	0.13774	-6.6863E-02	-9.9787E-02	1.2012E-01	-123.824
108	22	0.1125	0.1733	-0.0048	0.13774	-6.9310E-02	-9.7577E-02	1.1969E-01	-125.387
109	22	0.1876	0.2888	-0.0048	0.13774	-6.8919E-02	-9.4993E-02	1.1736E-01	-125.961
110	22	0.2626	0.4043	-0.0048	0.13774	-5.8679E-02	-8.8981E-02	1.0659E-01	-123.403
111	22	0.3376	0.5198	-0.0048	0.13774	-2.8225E-02	-5.5792E-02	6.2525E-02	-116.835
112	23	0.0344	0.0596	-0.0048	0.13771	-6.6906E-02	-9.9888E-02	1.2023E-01	-123.815
113	23	0.1033	0.1789	-0.0048	0.13771	-6.9338E-02	-9.7669E-02	1.1978E-01	-125.372
114	23	0.1722	0.2981	-0.0048	0.13771	-6.8917E-02	-9.5064E-02	1.1742E-01	-125.940
115	23	0.2410	0.4174	-0.0048	0.13771	-5.8647E-02	-8.9011E-02	1.0659E-01	-123.380
116	23	0.3099	0.5367	-0.0048	0.13771	-2.8193E-02	-5.5775E-02	6.2496E-02	-116.816
117	24	0.0313	0.0613	-0.0048	0.13770	-6.6902E-02	-9.9895E-02	1.2023E-01	-123.811
118	24	0.0938	0.1840	-0.0048	0.13770	-6.9312E-02	-9.7678E-02	1.1977E-01	-125.359
119	24	0.1563	0.3067	-0.0048	0.13770	-6.8860E-02	-9.5064E-02	1.1738E-01	-125.918
120	24	0.2188	0.4294	-0.0048	0.13770	-5.8567E-02	-8.8980E-02	1.0653E-01	-123.353
121	24	0.2813	0.5521	-0.0048	0.13770	-2.8140E-02	-5.5721E-02	6.2424E-02	-116.794
122	25	0.0280	0.0629	-0.0048	0.13772	-6.6912E-02	-9.9893E-02	1.2023E-01	-123.816
123	25	0.0841	0.1887	-0.0048	0.13772	-6.9343E-02	-9.7675E-02	1.1979E-01	-125.372
124	25	0.1401	0.3145	-0.0048	0.13772	-6.8919E-02	-9.5071E-02	1.1742E-01	-125.939
125	25	0.1962	0.4403	-0.0048	0.13772	-5.8646E-02	-8.9016E-02	1.0660E-01	-123.378
126	25	0.2522	0.5661	-0.0048	0.13772	-2.8191E-02	-5.5774E-02	6.2493E-02	-116.814
127	26	0.0247	0.0643	-0.0048	0.13774	-6.6934E-02	-9.9902E-02	1.2025E-01	-123.822
128	26	0.0741	0.1929	-0.0048	0.13774	-6.9396E-02	-9.7682E-02	1.1982E-01	-125.391
129	26	0.1234	0.3215	-0.0048	0.13774	-6.9016E-02	-9.5091E-02	1.1750E-01	-125.972
130	26	0.1728	0.4501	-0.0048	0.13774	-5.8768E-02	-8.9077E-02	1.0672E-01	-123.415
131	26	0.2222	0.5786	-0.0048	0.13774	-2.8268E-02	-5.5855E-02	6.2601E-02	-116.843
132	27	0.0213	0.0655	-0.0048	0.13775	-6.6939E-02	-9.9905E-02	1.2026E-01	-123.823
133	27	0.0639	0.1965	-0.0048	0.13775	-6.9403E-02	-9.7686E-02	1.1983E-01	-125.393
134	27	0.1065	0.3275	-0.0048	0.13775	-6.9022E-02	-9.5096E-02	1.1750E-01	-125.973
135	27	0.1491	0.4585	-0.0048	0.13775	-5.8773E-02	-8.9082E-02	1.0672E-01	-123.415
136	27	0.1916	0.5895	-0.0048	0.13775	-2.8269E-02	-5.5856E-02	6.2602E-02	-116.844
137	28	0.0178	0.0665	-0.0048	0.13773	-6.7004E-02	-1.0003E-01	1.2040E-01	-123.816
138	28	0.0535	0.1995	-0.0048	0.13773	-6.9454E-02	-9.7803E-02	1.1996E-01	-125.380
139	28	0.0892	0.3326	-0.0048	0.13773	-6.9043E-02	-9.5195E-02	1.1760E-01	-125.952
140	28	0.1248	0.4656	-0.0048	0.13773	-5.8755E-02	-8.9137E-02	1.0676E-01	-123.391
141	28	0.1605	0.5986	-0.0048	0.13773	-2.8240E-02	-5.5849E-02	6.2583E-02	-116.823
142	29	0.0143	0.0674	-0.0048	0.13775	-6.6984E-02	-9.9995E-02	1.2036E-01	-123.817
143	29	0.0429	0.2021	-0.0048	0.13775	-6.9468E-02	-9.7762E-02	1.1993E-01	-125.397
144	29	0.0716	0.3369	-0.0048	0.13775	-6.9113E-02	-9.5164E-02	1.1761E-01	-125.989
145	29	0.1002	0.4716	-0.0048	0.13775	-5.8872E-02	-8.9159E-02	1.0684E-01	-123.437
146	29	0.1288	0.6064	-0.0048	0.13775	-2.8327E-02	-5.5927E-02	6.2692E-02	-116.862
147	30	0.0108	0.0680	-0.0048	0.13771	-6.6923E-02	-9.9909E-02	1.2025E-01	-123.816
148	30	0.0323	0.2040	-0.0048	0.13771	-6.9333E-02	-9.7696E-02	1.1980E-01	-125.363
149	30	0.0538	0.3400	-0.0048	0.13771	-6.8879E-02	-9.5087E-02	1.1741E-01	-125.919
150	30	0.0753	0.4761	-0.0048	0.13771	-5.8581E-02	-8.9002E-02	1.0655E-01	-123.353
151	30	0.0968	0.6121	-0.0048	0.13771	-2.8143E-02	-5.5728E-02	6.2431E-02	-116.794
152	31	0.0072	0.0685	-0.0048	0.13772	-6.6873E-02	-9.9809E-02	1.2014E-01	-123.822
153	31	0.0216	0.2054	-0.0048	0.13772	-6.9301E-02	-9.7602E-02	1.1970E-01	-125.376
154	31	0.0360	0.3424	-0.0048	0.13772	-6.8880E-02	-9.5010E-02	1.1735E-01	-125.941
155	31	0.0504	0.4794	-0.0048	0.13772	-5.8619E-02	-8.8969E-02	1.0654E-01	-123.380
156	31	0.0648	0.6163	-0.0048	0.13772	-2.8183E-02	-5.5752E-02	6.2471E-02	-116.817
157	32	0.0036	0.0688	-0.0048	0.13773	-6.6947E-02	-9.9943E-02	1.2029E-01	-123.816
158	32	0.0109	0.2063	-0.0048	0.13773	-6.9396E-02	-9.7720E-02	1.1985E-01	-125.381
159	32	0.0181	0.3438	-0.0048	0.13773	-6.8995E-02	-9.5118E-02	1.1751E-01	-125.956
160	32	0.0253	0.4814	-0.0048	0.13773	-5.8730E-02	-8.9077E-02	1.0670E-01	-123.397
161	32	0.0326	0.6189	-0.0048	0.13773	-2.8239E-02	-5.5832E-02	6.2567E-02	-116.830
162	33	0.0000	0.0689	-0.0048	0.13773	-6.7002E-02	-1.0004E-01	1.2041E-01	-123.811
163	33	0.0000	0.2066	-0.0048	0.13773	-6.9460E-02	-9.7810E-02	1.1996E-01	-125.381
164	33	0.0000	0.3443	-0.0048	0.13773	-6.9066E-02	-9.5197E-02	1.1761E-01	-125.961
165	33	0.0000	0.4820	-0.0048	0.13773	-5.8793E-02	-8.9150E-02	1.0679E-01	-123.404
166	33	0.0000	0.6198	-0.0048	0.13773	-2.8268E-02	-5.5878E-02	6.2621E-02	-116.834
167	34	-0.0036	0.0688	-0.0048	0.13773	-6.6947E-02	-9.9943E-02	1.2029E-01	-123.816
168	34	-0.0109	0.2063	-0.0048	0.13773	-6.9396E-02	-9.7720E-02	1.1985E-01	-125.381
169	34	-0.0181	0.3438	-0.0048	0.13773	-6.8995E-02	-9.5118E-02	1.1751E-01	-125.956
170	34	-0.0253	0.4814	-0.0048	0.13773	-5.8730E-02	-8.9077E-02	1.0670E-01	-123.397
171	34	-0.0326	0.6189	-0.0048	0.13773	-2.8239E-02	-5.5832E-02	6.2567E-02	-116.830
172	35	-0.0072	0.0685	-0.0048	0.13772	-6.6873E-02	-9.9809E-02	1.2014E-01	-123.822
173	35	-0.0216	0.2054	-0.0048	0.13772	-6.9301E-02	-9.7602E-02	1.1970E-01	-125.376
174	35	-0.0360	0.3424	-0.0048	0.13772	-6.8880E-02	-9.5010E-02	1.1735E-01	-125.941
175	35	-0.0504	0.4794	-0.0048	0.13772	-5.8619E-02	-8.8969E-02	1.0654E-01	-123.380
176	35	-0.0648	0.6163	-0.0048	0.13772	-2.8183E-02	-5.5752E-02	6.2471E-02	-116.817

177	36	-0.0108	0.0680	-0.0048	0.13771	-6.6923E-02	-9.9909E-02	1.2025E-01	-123.816
178	36	-0.0323	0.2040	-0.0048	0.13771	-6.9333E-02	-9.7696E-02	1.1980E-01	-125.363
179	36	-0.0538	0.3400	-0.0048	0.13771	-6.8879E-02	-9.5087E-02	1.1741E-01	-125.919
180	36	-0.0753	0.4761	-0.0048	0.13771	-5.8581E-02	-8.9002E-02	1.0655E-01	-123.353
181	36	-0.0968	0.6121	-0.0048	0.13771	-2.8143E-02	-5.5728E-02	6.2431E-02	-116.794
182	37	-0.0143	0.0674	-0.0048	0.13775	-6.6984E-02	-9.9995E-02	1.2036E-01	-123.817
183	37	-0.0429	0.2021	-0.0048	0.13775	-6.9468E-02	-9.7762E-02	1.1993E-01	-125.397
184	37	-0.0716	0.3369	-0.0048	0.13775	-6.9113E-02	-9.5164E-02	1.1761E-01	-125.989
185	37	-0.1002	0.4716	-0.0048	0.13775	-5.8872E-02	-8.9159E-02	1.0684E-01	-123.437
186	37	-0.1288	0.6064	-0.0048	0.13775	-2.8327E-02	-5.5927E-02	6.2692E-02	-116.862
187	38	-0.0178	0.0665	-0.0048	0.13773	-6.7004E-02	-1.0003E-01	1.2040E-01	-123.816
188	38	-0.0535	0.1995	-0.0048	0.13773	-6.9454E-02	-9.7803E-02	1.1996E-01	-125.380
189	38	-0.0892	0.3326	-0.0048	0.13773	-6.9043E-02	-9.5195E-02	1.1760E-01	-125.952
190	38	-0.1248	0.4656	-0.0048	0.13773	-5.8755E-02	-8.9137E-02	1.0676E-01	-123.391
191	38	-0.1605	0.5986	-0.0048	0.13773	-2.8240E-02	-5.5849E-02	6.2583E-02	-116.823
192	39	-0.0213	0.0655	-0.0048	0.13775	-6.6939E-02	-9.9905E-02	1.2026E-01	-123.823
193	39	-0.0639	0.1965	-0.0048	0.13775	-6.9403E-02	-9.7686E-02	1.1983E-01	-125.393
194	39	-0.1065	0.3275	-0.0048	0.13775	-6.9022E-02	-9.5096E-02	1.1750E-01	-125.973
195	39	-0.1491	0.4585	-0.0048	0.13775	-5.8773E-02	-8.9082E-02	1.0672E-01	-123.415
196	39	-0.1916	0.5895	-0.0048	0.13775	-2.8269E-02	-5.5856E-02	6.2602E-02	-116.844
197	40	-0.0247	0.0643	-0.0048	0.13774	-6.6934E-02	-9.9902E-02	1.2025E-01	-123.822
198	40	-0.0741	0.1929	-0.0048	0.13774	-6.9396E-02	-9.7682E-02	1.1982E-01	-125.391
199	40	-0.1234	0.3215	-0.0048	0.13774	-6.9016E-02	-9.5091E-02	1.1750E-01	-125.972
200	40	-0.1728	0.4501	-0.0048	0.13774	-5.8768E-02	-8.9077E-02	1.0672E-01	-123.415
201	40	-0.2222	0.5786	-0.0048	0.13774	-2.8268E-02	-5.5855E-02	6.2601E-02	-116.843
202	41	-0.0280	0.0629	-0.0048	0.13772	-6.6912E-02	-9.9893E-02	1.2023E-01	-123.816
203	41	-0.0841	0.1887	-0.0048	0.13772	-6.9343E-02	-9.7675E-02	1.1979E-01	-125.372
204	41	-0.1401	0.3145	-0.0048	0.13772	-6.8919E-02	-9.5071E-02	1.1742E-01	-125.939
205	41	-0.1962	0.4403	-0.0048	0.13772	-5.8646E-02	-8.9016E-02	1.0660E-01	-123.378
206	41	-0.2522	0.5661	-0.0048	0.13772	-2.8191E-02	-5.5774E-02	6.2493E-02	-116.814
207	42	-0.0313	0.0613	-0.0048	0.13770	-6.6902E-02	-9.9895E-02	1.2023E-01	-123.811
208	42	-0.0938	0.1840	-0.0048	0.13770	-6.9312E-02	-9.7678E-02	1.1977E-01	-125.359
209	42	-0.1563	0.3067	-0.0048	0.13770	-6.8860E-02	-9.5064E-02	1.1738E-01	-125.918
210	42	-0.2188	0.4294	-0.0048	0.13770	-5.8567E-02	-8.8980E-02	1.0653E-01	-123.353
211	42	-0.2813	0.5521	-0.0048	0.13770	-2.8140E-02	-5.5721E-02	6.2424E-02	-116.794
212	43	-0.0344	0.0596	-0.0048	0.13771	-6.6906E-02	-9.9888E-02	1.2023E-01	-123.815
213	43	-0.1033	0.1789	-0.0048	0.13771	-6.9338E-02	-9.7669E-02	1.1978E-01	-125.372
214	43	-0.1722	0.2981	-0.0048	0.13771	-6.8917E-02	-9.5064E-02	1.1742E-01	-125.940
215	43	-0.2410	0.4174	-0.0048	0.13771	-5.8647E-02	-8.9011E-02	1.0659E-01	-123.380
216	43	-0.3099	0.5367	-0.0048	0.13771	-2.8193E-02	-5.5775E-02	6.2496E-02	-116.816
217	44	-0.0375	0.0578	-0.0048	0.13774	-6.6863E-02	-9.9787E-02	1.2012E-01	-123.824
218	44	-0.1125	0.1733	-0.0048	0.13774	-6.9310E-02	-9.7577E-02	1.1969E-01	-125.387
219	44	-0.1876	0.2888	-0.0048	0.13774	-6.8919E-02	-9.4993E-02	1.1736E-01	-125.961
220	44	-0.2626	0.4043	-0.0048	0.13774	-5.8679E-02	-8.8981E-02	1.0659E-01	-123.403
221	44	-0.3376	0.5198	-0.0048	0.13774	-2.8225E-02	-5.5792E-02	6.2525E-02	-116.835
222	45	-0.0405	0.0557	-0.0048	0.13773	-6.6952E-02	-9.9955E-02	1.2031E-01	-123.815
223	45	-0.1214	0.1672	-0.0048	0.13773	-6.9410E-02	-9.7727E-02	1.1987E-01	-125.384
224	45	-0.2023	0.2786	-0.0048	0.13773	-6.9016E-02	-9.5124E-02	1.1752E-01	-125.962
225	45	-0.2832	0.3901	-0.0048	0.13773	-5.8753E-02	-8.9090E-02	1.0672E-01	-123.404
226	45	-0.3642	0.5015	-0.0048	0.13773	-2.8252E-02	-5.5847E-02	6.2587E-02	-116.834
227	46	-0.0433	0.0535	-0.0048	0.13772	-6.6964E-02	-9.9970E-02	1.2033E-01	-123.816
228	46	-0.1300	0.1605	-0.0048	0.13772	-6.9407E-02	-9.7747E-02	1.1988E-01	-125.377
229	46	-0.2167	0.2675	-0.0048	0.13772	-6.8993E-02	-9.5142E-02	1.1752E-01	-125.948
230	46	-0.3034	0.3745	-0.0048	0.13772	-5.8712E-02	-8.9088E-02	1.0669E-01	-123.386
231	46	-0.3901	0.4815	-0.0048	0.13772	-2.8222E-02	-5.5822E-02	6.2550E-02	-116.820
232	47	-0.0461	0.0512	-0.0048	0.13775	-6.6882E-02	-9.9820E-02	1.2016E-01	-123.823
233	47	-0.1382	0.1536	-0.0048	0.13775	-6.9344E-02	-9.7603E-02	1.1973E-01	-125.392
234	47	-0.2304	0.2559	-0.0048	0.13775	-6.8976E-02	-9.5016E-02	1.1741E-01	-125.977
235	47	-0.3226	0.3583	-0.0048	0.13775	-5.8754E-02	-8.9016E-02	1.0666E-01	-123.426
236	47	-0.4147	0.4607	-0.0048	0.13775	-2.8270E-02	-5.5836E-02	6.2584E-02	-116.853
237	48	-0.0487	0.0487	-0.0048	0.13769	-6.6981E-02	-1.0004E-01	1.2039E-01	-123.805
238	48	-0.1460	0.1460	-0.0048	0.13769	-6.9393E-02	-9.7811E-02	1.1993E-01	-125.354
239	48	-0.2434	0.2434	-0.0048	0.13769	-6.8922E-02	-9.5184E-02	1.1752E-01	-125.908
240	48	-0.3408	0.3408	-0.0048	0.13769	-5.8593E-02	-8.9069E-02	1.0661E-01	-123.339
241	48	-0.4381	0.4381	-0.0048	0.13769	-2.8135E-02	-5.5744E-02	6.2442E-02	-116.781
242	49	-0.0512	0.0461	-0.0048	0.13775	-6.6882E-02	-9.9820E-02	1.2016E-01	-123.823
243	49	-0.1536	0.1382	-0.0048	0.13775	-6.9344E-02	-9.7603E-02	1.1973E-01	-125.392
244	49	-0.2559	0.2304	-0.0048	0.13775	-6.8976E-02	-9.5016E-02	1.1741E-01	-125.977
245	49	-0.3583	0.3226	-0.0048	0.13775	-5.8754E-02	-8.9016E-02	1.0666E-01	-123.426
246	49	-0.4607	0.4147	-0.0048	0.13775	-2.8270E-02	-5.5836E-02	6.2584E-02	-116.853

247	50	-0.0535	0.0433	-0.0048	0.13772	-6.6964E-02	-9.9970E-02	1.2033E-01	-123.816
248	50	-0.1605	0.1300	-0.0048	0.13772	-6.9407E-02	-9.7747E-02	1.1988E-01	-125.377
249	50	-0.2675	0.2167	-0.0048	0.13772	-6.8993E-02	-9.5142E-02	1.1752E-01	-125.948
250	50	-0.3745	0.3034	-0.0048	0.13772	-5.8712E-02	-8.9088E-02	1.0669E-01	-123.386
251	50	-0.4815	0.3901	-0.0048	0.13772	-2.8222E-02	-5.5822E-02	6.2550E-02	-116.820
252	51	-0.0557	0.0405	-0.0048	0.13773	-6.6952E-02	-9.9955E-02	1.2031E-01	-123.815
253	51	-0.1672	0.1214	-0.0048	0.13773	-6.9410E-02	-9.7727E-02	1.1987E-01	-125.384
254	51	-0.2786	0.2023	-0.0048	0.13773	-6.9016E-02	-9.5124E-02	1.1752E-01	-125.962
255	51	-0.3901	0.2832	-0.0048	0.13773	-5.8753E-02	-8.9090E-02	1.0672E-01	-123.404
256	51	-0.5015	0.3642	-0.0048	0.13773	-2.8252E-02	-5.5847E-02	6.2587E-02	-116.834
257	52	-0.0578	0.0375	-0.0048	0.13774	-6.6863E-02	-9.9787E-02	1.2012E-01	-123.824
258	52	-0.1733	0.1125	-0.0048	0.13774	-6.9310E-02	-9.7577E-02	1.1969E-01	-125.387
259	52	-0.2888	0.1876	-0.0048	0.13774	-6.8919E-02	-9.4993E-02	1.1736E-01	-125.961
260	52	-0.4043	0.2626	-0.0048	0.13774	-5.8679E-02	-8.8981E-02	1.0659E-01	-123.403
261	52	-0.5198	0.3376	-0.0048	0.13774	-2.8225E-02	-5.5792E-02	6.2525E-02	-116.835
262	53	-0.0596	0.0344	-0.0048	0.13771	-6.6906E-02	-9.9888E-02	1.2023E-01	-123.815
263	53	-0.1789	0.1033	-0.0048	0.13771	-6.9338E-02	-9.7669E-02	1.1978E-01	-125.372
264	53	-0.2981	0.1722	-0.0048	0.13771	-6.8917E-02	-9.5064E-02	1.1742E-01	-125.940
265	53	-0.4174	0.2410	-0.0048	0.13771	-5.8647E-02	-8.9011E-02	1.0659E-01	-123.380
266	53	-0.5367	0.3099	-0.0048	0.13771	-2.8193E-02	-5.5775E-02	6.2496E-02	-116.816
267	54	-0.0613	0.0313	-0.0048	0.13770	-6.6902E-02	-9.9895E-02	1.2023E-01	-123.811
268	54	-0.1840	0.0938	-0.0048	0.13770	-6.9312E-02	-9.7678E-02	1.1977E-01	-125.359
269	54	-0.3067	0.1563	-0.0048	0.13770	-6.8860E-02	-9.5064E-02	1.1738E-01	-125.918
270	54	-0.4294	0.2188	-0.0048	0.13770	-5.8567E-02	-8.8980E-02	1.0653E-01	-123.353
271	54	-0.5521	0.2813	-0.0048	0.13770	-2.8140E-02	-5.5721E-02	6.2424E-02	-116.794
272	55	-0.0629	0.0280	-0.0048	0.13772	-6.6912E-02	-9.9893E-02	1.2023E-01	-123.816
273	55	-0.1887	0.0841	-0.0048	0.13772	-6.9343E-02	-9.7675E-02	1.1979E-01	-125.372
274	55	-0.3145	0.1401	-0.0048	0.13772	-6.8919E-02	-9.5071E-02	1.1742E-01	-125.939
275	55	-0.4403	0.1962	-0.0048	0.13772	-5.8646E-02	-8.9016E-02	1.0660E-01	-123.378
276	55	-0.5661	0.2522	-0.0048	0.13772	-2.8191E-02	-5.5774E-02	6.2493E-02	-116.814
277	56	-0.0643	0.0247	-0.0048	0.13774	-6.6934E-02	-9.9902E-02	1.2025E-01	-123.822
278	56	-0.1929	0.0741	-0.0048	0.13774	-6.9396E-02	-9.7682E-02	1.1982E-01	-125.391
279	56	-0.3215	0.1234	-0.0048	0.13774	-6.9016E-02	-9.5091E-02	1.1750E-01	-125.972
280	56	-0.4501	0.1728	-0.0048	0.13774	-5.8768E-02	-8.9077E-02	1.0672E-01	-123.415
281	56	-0.5786	0.2222	-0.0048	0.13774	-2.8268E-02	-5.5855E-02	6.2601E-02	-116.843
282	57	-0.0655	0.0213	-0.0048	0.13775	-6.6939E-02	-9.9905E-02	1.2026E-01	-123.823
283	57	-0.1965	0.0639	-0.0048	0.13775	-6.9403E-02	-9.7686E-02	1.1983E-01	-125.393
284	57	-0.3275	0.1065	-0.0048	0.13775	-6.9022E-02	-9.5096E-02	1.1750E-01	-125.973
285	57	-0.4585	0.1491	-0.0048	0.13775	-5.8773E-02	-8.9082E-02	1.0672E-01	-123.415
286	57	-0.5895	0.1916	-0.0048	0.13775	-2.8269E-02	-5.5856E-02	6.2602E-02	-116.844
287	58	-0.0665	0.0178	-0.0048	0.13773	-6.7004E-02	-1.0003E-01	1.2040E-01	-123.816
288	58	-0.1995	0.0535	-0.0048	0.13773	-6.9454E-02	-9.7803E-02	1.1996E-01	-125.380
289	58	-0.3326	0.0892	-0.0048	0.13773	-6.9043E-02	-9.5195E-02	1.1760E-01	-125.952
290	58	-0.4656	0.1248	-0.0048	0.13773	-5.8755E-02	-8.9137E-02	1.0676E-01	-123.391
291	58	-0.5986	0.1605	-0.0048	0.13773	-2.8240E-02	-5.5849E-02	6.2583E-02	-116.823
292	59	-0.0674	0.0143	-0.0048	0.13775	-6.6984E-02	-9.9995E-02	1.2036E-01	-123.817
293	59	-0.2021	0.0429	-0.0048	0.13775	-6.9468E-02	-9.7762E-02	1.1993E-01	-125.397
294	59	-0.3369	0.0716	-0.0048	0.13775	-6.9113E-02	-9.5164E-02	1.1761E-01	-125.989
295	59	-0.4716	0.1002	-0.0048	0.13775	-5.8872E-02	-8.9159E-02	1.0684E-01	-123.437
296	59	-0.6064	0.1288	-0.0048	0.13775	-2.8327E-02	-5.5927E-02	6.2692E-02	-116.862
297	60	-0.0680	0.0108	-0.0048	0.13771	-6.6923E-02	-9.9909E-02	1.2025E-01	-123.816
298	60	-0.2040	0.0323	-0.0048	0.13771	-6.9333E-02	-9.7696E-02	1.1980E-01	-125.363
299	60	-0.3400	0.0538	-0.0048	0.13771	-6.8879E-02	-9.5087E-02	1.1741E-01	-125.919
300	60	-0.4761	0.0753	-0.0048	0.13771	-5.8581E-02	-8.9002E-02	1.0655E-01	-123.353
301	60	-0.6121	0.0968	-0.0048	0.13771	-2.8143E-02	-5.5728E-02	6.2431E-02	-116.794
302	61	-0.0685	0.0072	-0.0048	0.13772	-6.6873E-02	-9.9809E-02	1.2014E-01	-123.822
303	61	-0.2054	0.0216	-0.0048	0.13772	-6.9301E-02	-9.7602E-02	1.1970E-01	-125.376
304	61	-0.3424	0.0360	-0.0048	0.13772	-6.8880E-02	-9.5010E-02	1.1735E-01	-125.941
305	61	-0.4794	0.0504	-0.0048	0.13772	-5.8619E-02	-8.8969E-02	1.0654E-01	-123.380
306	61	-0.6163	0.0648	-0.0048	0.13772	-2.8183E-02	-5.5752E-02	6.2471E-02	-116.817
307	62	-0.0688	0.0036	-0.0048	0.13773	-6.6947E-02	-9.9943E-02	1.2029E-01	-123.816
308	62	-0.2063	0.0109	-0.0048	0.13773	-6.9396E-02	-9.7720E-02	1.1985E-01	-125.381
309	62	-0.3438	0.0181	-0.0048	0.13773	-6.8995E-02	-9.5118E-02	1.1751E-01	-125.956
310	62	-0.4814	0.0253	-0.0048	0.13773	-5.8730E-02	-8.9077E-02	1.0670E-01	-123.397
311	62	-0.6189	0.0326	-0.0048	0.13773	-2.8239E-02	-5.5832E-02	6.2567E-02	-116.830
312	63	-0.0689	0.0000	-0.0048	0.13773	-6.7002E-02	-1.0004E-01	1.2041E-01	-123.811
313	63	-0.2066	0.0000	-0.0048	0.13773	-6.9460E-02	-9.7810E-02	1.1996E-01	-125.381
314	63	-0.3443	0.0000	-0.0048	0.13773	-6.9066E-02	-9.5197E-02	1.1761E-01	-125.961
315	63	-0.4820	0.0000	-0.0048	0.13773	-5.8793E-02	-8.9150E-02	1.0679E-01	-123.404
316	63	-0.6198	0.0000	-0.0048	0.13773	-2.8268E-02	-5.5878E-02	6.2621E-02	-116.834

317	64	-0.0688	-0.0036	-0.0048	0.13773	-6.6947E-02	-9.9943E-02	1.2029E-01	-123.816
318	64	-0.2063	-0.0109	-0.0048	0.13773	-6.9396E-02	-9.7720E-02	1.1985E-01	-125.381
319	64	-0.3438	-0.0181	-0.0048	0.13773	-6.8995E-02	-9.5118E-02	1.1751E-01	-125.956
320	64	-0.4814	-0.0253	-0.0048	0.13773	-5.8730E-02	-8.9077E-02	1.0670E-01	-123.397
321	64	-0.6189	-0.0326	-0.0048	0.13773	-2.8239E-02	-5.5832E-02	6.2567E-02	-116.830
322	65	-0.0685	-0.0072	-0.0048	0.13772	-6.6873E-02	-9.9809E-02	1.2014E-01	-123.822
323	65	-0.2054	-0.0216	-0.0048	0.13772	-6.9301E-02	-9.7602E-02	1.1970E-01	-125.376
324	65	-0.3424	-0.0360	-0.0048	0.13772	-6.8880E-02	-9.5010E-02	1.1735E-01	-125.941
325	65	-0.4794	-0.0504	-0.0048	0.13772	-5.8619E-02	-8.8969E-02	1.0654E-01	-123.380
326	65	-0.6163	-0.0648	-0.0048	0.13772	-2.8183E-02	-5.5752E-02	6.2471E-02	-116.817
327	66	-0.0680	-0.0108	-0.0048	0.13771	-6.6923E-02	-9.9909E-02	1.2025E-01	-123.816
328	66	-0.2040	-0.0323	-0.0048	0.13771	-6.9333E-02	-9.7696E-02	1.1980E-01	-125.363
329	66	-0.3400	-0.0538	-0.0048	0.13771	-6.8879E-02	-9.5087E-02	1.1741E-01	-125.919
330	66	-0.4761	-0.0753	-0.0048	0.13771	-5.8581E-02	-8.9002E-02	1.0655E-01	-123.353
331	66	-0.6121	-0.0968	-0.0048	0.13771	-2.8143E-02	-5.5728E-02	6.2431E-02	-116.794
332	67	-0.0674	-0.0143	-0.0048	0.13775	-6.6984E-02	-9.9995E-02	1.2036E-01	-123.817
333	67	-0.2021	-0.0429	-0.0048	0.13775	-6.9468E-02	-9.7762E-02	1.1993E-01	-125.397
334	67	-0.3369	-0.0716	-0.0048	0.13775	-6.9113E-02	-9.5164E-02	1.1761E-01	-125.989
335	67	-0.4716	-0.1002	-0.0048	0.13775	-5.8872E-02	-8.9159E-02	1.0684E-01	-123.437
336	67	-0.6064	-0.1288	-0.0048	0.13775	-2.8327E-02	-5.5927E-02	6.2692E-02	-116.862
337	68	-0.0665	-0.0178	-0.0048	0.13773	-6.7004E-02	-1.0003E-01	1.2040E-01	-123.816
338	68	-0.1995	-0.0535	-0.0048	0.13773	-6.9454E-02	-9.7803E-02	1.1996E-01	-125.380
339	68	-0.3326	-0.0892	-0.0048	0.13773	-6.9043E-02	-9.5195E-02	1.1760E-01	-125.952
340	68	-0.4656	-0.1248	-0.0048	0.13773	-5.8755E-02	-8.9137E-02	1.0676E-01	-123.391
341	68	-0.5986	-0.1605	-0.0048	0.13773	-2.8240E-02	-5.5849E-02	6.2583E-02	-116.823
342	69	-0.0655	-0.0213	-0.0048	0.13775	-6.6939E-02	-9.9905E-02	1.2026E-01	-123.823
343	69	-0.1965	-0.0639	-0.0048	0.13775	-6.9403E-02	-9.7686E-02	1.1983E-01	-125.393
344	69	-0.3275	-0.1065	-0.0048	0.13775	-6.9022E-02	-9.5096E-02	1.1750E-01	-125.973
345	69	-0.4585	-0.1491	-0.0048	0.13775	-5.8773E-02	-8.9082E-02	1.0672E-01	-123.415
346	69	-0.5895	-0.1916	-0.0048	0.13775	-2.8269E-02	-5.5856E-02	6.2602E-02	-116.844
347	70	-0.0643	-0.0247	-0.0048	0.13774	-6.6934E-02	-9.9902E-02	1.2025E-01	-123.822
348	70	-0.1929	-0.0741	-0.0048	0.13774	-6.9396E-02	-9.7682E-02	1.1982E-01	-125.391
349	70	-0.3215	-0.1234	-0.0048	0.13774	-6.9016E-02	-9.5091E-02	1.1750E-01	-125.972
350	70	-0.4501	-0.1728	-0.0048	0.13774	-5.8768E-02	-8.9077E-02	1.0672E-01	-123.415
351	70	-0.5786	-0.2222	-0.0048	0.13774	-2.8268E-02	-5.5855E-02	6.2601E-02	-116.843
352	71	-0.0629	-0.0280	-0.0048	0.13772	-6.6912E-02	-9.9893E-02	1.2023E-01	-123.816
353	71	-0.1887	-0.0841	-0.0048	0.13772	-6.9343E-02	-9.7675E-02	1.1979E-01	-125.372
354	71	-0.3145	-0.1401	-0.0048	0.13772	-6.8919E-02	-9.5071E-02	1.1742E-01	-125.939
355	71	-0.4403	-0.1962	-0.0048	0.13772	-5.8646E-02	-8.9016E-02	1.0660E-01	-123.378
356	71	-0.5661	-0.2522	-0.0048	0.13772	-2.8191E-02	-5.5774E-02	6.2493E-02	-116.814
357	72	-0.0613	-0.0313	-0.0048	0.13770	-6.6902E-02	-9.9895E-02	1.2023E-01	-123.811
358	72	-0.1840	-0.0938	-0.0048	0.13770	-6.9312E-02	-9.7678E-02	1.1977E-01	-125.359
359	72	-0.3067	-0.1563	-0.0048	0.13770	-6.8860E-02	-9.5064E-02	1.1738E-01	-125.918
360	72	-0.4294	-0.2188	-0.0048	0.13770	-5.8567E-02	-8.8980E-02	1.0653E-01	-123.353
361	72	-0.5521	-0.2813	-0.0048	0.13770	-2.8140E-02	-5.5721E-02	6.2424E-02	-116.794
362	73	-0.0596	-0.0344	-0.0048	0.13771	-6.6906E-02	-9.9888E-02	1.2023E-01	-123.815
363	73	-0.1789	-0.1033	-0.0048	0.13771	-6.9338E-02	-9.7669E-02	1.1978E-01	-125.372
364	73	-0.2981	-0.1722	-0.0048	0.13771	-6.8917E-02	-9.5064E-02	1.1742E-01	-125.940
365	73	-0.4174	-0.2410	-0.0048	0.13771	-5.8647E-02	-8.9011E-02	1.0659E-01	-123.380
366	73	-0.5367	-0.3099	-0.0048	0.13771	-2.8193E-02	-5.5775E-02	6.2496E-02	-116.816
367	74	-0.0578	-0.0375	-0.0048	0.13774	-6.6863E-02	-9.9787E-02	1.2012E-01	-123.824
368	74	-0.1733	-0.1125	-0.0048	0.13774	-6.9310E-02	-9.7577E-02	1.1969E-01	-125.387
369	74	-0.2888	-0.1876	-0.0048	0.13774	-6.8919E-02	-9.4993E-02	1.1736E-01	-125.961
370	74	-0.4043	-0.2626	-0.0048	0.13774	-5.8679E-02	-8.8981E-02	1.0659E-01	-123.403
371	74	-0.5198	-0.3376	-0.0048	0.13774	-2.8225E-02	-5.5792E-02	6.2525E-02	-116.835
372	75	-0.0557	-0.0405	-0.0048	0.13773	-6.6952E-02	-9.9955E-02	1.2031E-01	-123.815
373	75	-0.1672	-0.1214	-0.0048	0.13773	-6.9410E-02	-9.7727E-02	1.1987E-01	-125.384
374	75	-0.2786	-0.2023	-0.0048	0.13773	-6.9016E-02	-9.5124E-02	1.1752E-01	-125.962
375	75	-0.3901	-0.2832	-0.0048	0.13773	-5.8753E-02	-8.9090E-02	1.0672E-01	-123.404
376	75	-0.5015	-0.3642	-0.0048	0.13773	-2.8252E-02	-5.5847E-02	6.2587E-02	-116.834
377	76	-0.0535	-0.0433	-0.0048	0.13772	-6.6964E-02	-9.9970E-02	1.2033E-01	-123.816
378	76	-0.1605	-0.1300	-0.0048	0.13772	-6.9407E-02	-9.7747E-02	1.1988E-01	-125.377
379	76	-0.2675	-0.2167	-0.0048	0.13772	-6.8993E-02	-9.5142E-02	1.1752E-01	-125.948
380	76	-0.3745	-0.3034	-0.0048	0.13772	-5.8712E-02	-8.9088E-02	1.0669E-01	-123.386
381	76	-0.4815	-0.3901	-0.0048	0.13772	-2.8222E-02	-5.5822E-02	6.2550E-02	-116.820
382	77	-0.0512	-0.0461	-0.0048	0.13775	-6.6882E-02	-9.9820E-02	1.2016E-01	-123.823
383	77	-0.1536	-0.1382	-0.0048	0.13775	-6.9344E-02	-9.7603E-02	1.1973E-01	-125.392
384	77	-0.2559	-0.2304	-0.0048	0.13775	-6.8976E-02	-9.5016E-02	1.1741E-01	-125.977
385	77	-0.3583	-0.3226	-0.0048	0.13775	-5.8754E-02	-8.9016E-02	1.0666E-01	-123.426
386	77	-0.4607	-0.4147	-0.0048	0.13775	-2.8270E-02	-5.5836E-02	6.2584E-02	-116.853

387	78	-0.0487	-0.0487	-0.0048	0.13769	-6.6981E-02	-1.0004E-01	1.2039E-01	-123.805
388	78	-0.1460	-0.1460	-0.0048	0.13769	-6.9393E-02	-9.7811E-02	1.1993E-01	-125.354
389	78	-0.2434	-0.2434	-0.0048	0.13769	-6.8922E-02	-9.5184E-02	1.1752E-01	-125.908
390	78	-0.3408	-0.3408	-0.0048	0.13769	-5.8593E-02	-8.9069E-02	1.0661E-01	-123.339
391	78	-0.4381	-0.4381	-0.0048	0.13769	-2.8135E-02	-5.5744E-02	6.2442E-02	-116.781
392	79	-0.0461	-0.0512	-0.0048	0.13775	-6.6882E-02	-9.9820E-02	1.2016E-01	-123.823
393	79	-0.1382	-0.1536	-0.0048	0.13775	-6.9344E-02	-9.7603E-02	1.1973E-01	-125.392
394	79	-0.2304	-0.2559	-0.0048	0.13775	-6.8976E-02	-9.5016E-02	1.1741E-01	-125.977
395	79	-0.3226	-0.3583	-0.0048	0.13775	-5.8754E-02	-8.9016E-02	1.0666E-01	-123.426
396	79	-0.4147	-0.4607	-0.0048	0.13775	-2.8270E-02	-5.5836E-02	6.2584E-02	-116.853
397	80	-0.0433	-0.0535	-0.0048	0.13772	-6.6964E-02	-9.9970E-02	1.2033E-01	-123.816
398	80	-0.1300	-0.1605	-0.0048	0.13772	-6.9407E-02	-9.7747E-02	1.1988E-01	-125.377
399	80	-0.2167	-0.2675	-0.0048	0.13772	-6.8993E-02	-9.5142E-02	1.1752E-01	-125.948
400	80	-0.3034	-0.3745	-0.0048	0.13772	-5.8712E-02	-8.9088E-02	1.0669E-01	-123.386
401	80	-0.3901	-0.4815	-0.0048	0.13772	-2.8222E-02	-5.5822E-02	6.2550E-02	-116.820
402	81	-0.0405	-0.0557	-0.0048	0.13773	-6.6952E-02	-9.9955E-02	1.2031E-01	-123.815
403	81	-0.1214	-0.1672	-0.0048	0.13773	-6.9410E-02	-9.7727E-02	1.1987E-01	-125.384
404	81	-0.2023	-0.2786	-0.0048	0.13773	-6.9016E-02	-9.5124E-02	1.1752E-01	-125.962
405	81	-0.2832	-0.3901	-0.0048	0.13773	-5.8753E-02	-8.9090E-02	1.0672E-01	-123.404
406	81	-0.3642	-0.5015	-0.0048	0.13773	-2.8252E-02	-5.5847E-02	6.2587E-02	-116.834
407	82	-0.0375	-0.0578	-0.0048	0.13774	-6.6863E-02	-9.9787E-02	1.2012E-01	-123.824
408	82	-0.1125	-0.1733	-0.0048	0.13774	-6.9310E-02	-9.7577E-02	1.1969E-01	-125.387
409	82	-0.1876	-0.2888	-0.0048	0.13774	-6.8919E-02	-9.4993E-02	1.1736E-01	-125.961
410	82	-0.2626	-0.4043	-0.0048	0.13774	-5.8679E-02	-8.8981E-02	1.0659E-01	-123.403
411	82	-0.3376	-0.5198	-0.0048	0.13774	-2.8225E-02	-5.5792E-02	6.2525E-02	-116.835
412	83	-0.0344	-0.0596	-0.0048	0.13771	-6.6906E-02	-9.9888E-02	1.2023E-01	-123.815
413	83	-0.1033	-0.1789	-0.0048	0.13771	-6.9338E-02	-9.7669E-02	1.1978E-01	-125.372
414	83	-0.1722	-0.2981	-0.0048	0.13771	-6.8917E-02	-9.5064E-02	1.1742E-01	-125.940
415	83	-0.2410	-0.4174	-0.0048	0.13771	-5.8647E-02	-8.9011E-02	1.0659E-01	-123.380
416	83	-0.3099	-0.5367	-0.0048	0.13771	-2.8193E-02	-5.5775E-02	6.2496E-02	-116.816
417	84	-0.0313	-0.0613	-0.0048	0.13770	-6.6902E-02	-9.9895E-02	1.2023E-01	-123.811
418	84	-0.0938	-0.1840	-0.0048	0.13770	-6.9312E-02	-9.7678E-02	1.1977E-01	-125.359
419	84	-0.1563	-0.3067	-0.0048	0.13770	-6.8860E-02	-9.5064E-02	1.1738E-01	-125.918
420	84	-0.2188	-0.4294	-0.0048	0.13770	-5.8567E-02	-8.8980E-02	1.0653E-01	-123.353
421	84	-0.2813	-0.5521	-0.0048	0.13770	-2.8140E-02	-5.5721E-02	6.2424E-02	-116.794
422	85	-0.0280	-0.0629	-0.0048	0.13772	-6.6912E-02	-9.9893E-02	1.2023E-01	-123.816
423	85	-0.0841	-0.1887	-0.0048	0.13772	-6.9343E-02	-9.7675E-02	1.1979E-01	-125.372
424	85	-0.1401	-0.3145	-0.0048	0.13772	-6.8919E-02	-9.5071E-02	1.1742E-01	-125.939
425	85	-0.1962	-0.4403	-0.0048	0.13772	-5.8646E-02	-8.9016E-02	1.0660E-01	-123.378
426	85	-0.2522	-0.5661	-0.0048	0.13772	-2.8191E-02	-5.5774E-02	6.2493E-02	-116.814
427	86	-0.0247	-0.0643	-0.0048	0.13774	-6.6934E-02	-9.9902E-02	1.2025E-01	-123.822
428	86	-0.0741	-0.1929	-0.0048	0.13774	-6.9396E-02	-9.7682E-02	1.1982E-01	-125.391
429	86	-0.1234	-0.3215	-0.0048	0.13774	-6.9016E-02	-9.5091E-02	1.1750E-01	-125.972
430	86	-0.1728	-0.4501	-0.0048	0.13774	-5.8768E-02	-8.9077E-02	1.0672E-01	-123.415
431	86	-0.2222	-0.5786	-0.0048	0.13774	-2.8268E-02	-5.5855E-02	6.2601E-02	-116.843
432	87	-0.0213	-0.0655	-0.0048	0.13775	-6.6939E-02	-9.9905E-02	1.2026E-01	-123.823
433	87	-0.0639	-0.1965	-0.0048	0.13775	-6.9403E-02	-9.7686E-02	1.1983E-01	-125.393
434	87	-0.1065	-0.3275	-0.0048	0.13775	-6.9022E-02	-9.5096E-02	1.1750E-01	-125.973
435	87	-0.1491	-0.4585	-0.0048	0.13775	-5.8773E-02	-8.9082E-02	1.0672E-01	-123.415
436	87	-0.1916	-0.5895	-0.0048	0.13775	-2.8269E-02	-5.5856E-02	6.2602E-02	-116.844
437	88	-0.0178	-0.0665	-0.0048	0.13773	-6.7004E-02	-1.0003E-01	1.2040E-01	-123.816
438	88	-0.0535	-0.1995	-0.0048	0.13773	-6.9454E-02	-9.7803E-02	1.1996E-01	-125.380
439	88	-0.0892	-0.3326	-0.0048	0.13773	-6.9043E-02	-9.5195E-02	1.1760E-01	-125.952
440	88	-0.1248	-0.4656	-0.0048	0.13773	-5.8755E-02	-8.9137E-02	1.0676E-01	-123.391
441	88	-0.1605	-0.5986	-0.0048	0.13773	-2.8240E-02	-5.5849E-02	6.2583E-02	-116.823
442	89	-0.0143	-0.0674	-0.0048	0.13775	-6.6984E-02	-9.9995E-02	1.2036E-01	-123.817
443	89	-0.0429	-0.2021	-0.0048	0.13775	-6.9468E-02	-9.7762E-02	1.1993E-01	-125.397
444	89	-0.0716	-0.3369	-0.0048	0.13775	-6.9113E-02	-9.5164E-02	1.1761E-01	-125.989
445	89	-0.1002	-0.4716	-0.0048	0.13775	-5.8872E-02	-8.9159E-02	1.0684E-01	-123.437
446	89	-0.1288	-0.6064	-0.0048	0.13775	-2.8327E-02	-5.5927E-02	6.2692E-02	-116.862
447	90	-0.0108	-0.0680	-0.0048	0.13771	-6.6923E-02	-9.9909E-02	1.2025E-01	-123.816
448	90	-0.0323	-0.2040	-0.0048	0.13771	-6.9333E-02	-9.7696E-02	1.1980E-01	-125.363
449	90	-0.0538	-0.3400	-0.0048	0.13771	-6.8879E-02	-9.5087E-02	1.1741E-01	-125.919
450	90	-0.0753	-0.4761	-0.0048	0.13771	-5.8581E-02	-8.9002E-02	1.0655E-01	-123.353
451	90	-0.0968	-0.6121	-0.0048	0.13771	-2.8143E-02	-5.5728E-02	6.2431E-02	-116.794
452	91	-0.0072	-0.0685	-0.0048	0.13772	-6.6873E-02	-9.9809E-02	1.2014E-01	-123.822
453	91	-0.0216	-0.2054	-0.0048	0.13772	-6.9301E-02	-9.7602E-02	1.1970E-01	-125.376
454	91	-0.0360	-0.3424	-0.0048	0.13772	-6.8880E-02	-9.5010E-02	1.1735E-01	-125.941
455	91	-0.0504	-0.4794	-0.0048	0.13772	-5.8619E-02	-8.8969E-02	1.0654E-01	-123.380
456	91	-0.0648	-0.6163	-0.0048	0.13772	-2.8183E-02	-5.5752E-02	6.2471E-02	-116.817

457	92	-0.0036	-0.0688	-0.0048	0.13773	-6.6947E-02	-9.9943E-02	1.2029E-01	-123.816
458	92	-0.0109	-0.2063	-0.0048	0.13773	-6.9396E-02	-9.7720E-02	1.1985E-01	-125.381
459	92	-0.0181	-0.3438	-0.0048	0.13773	-6.8995E-02	-9.5118E-02	1.1751E-01	-125.956
460	92	-0.0253	-0.4814	-0.0048	0.13773	-5.8730E-02	-8.9077E-02	1.0670E-01	-123.397
461	92	-0.0326	-0.6189	-0.0048	0.13773	-2.8239E-02	-5.5832E-02	6.2567E-02	-116.830
462	93	0.0000	-0.0689	-0.0048	0.13773	-6.7002E-02	-1.0004E-01	1.2041E-01	-123.811
463	93	0.0000	-0.2066	-0.0048	0.13773	-6.9460E-02	-9.7810E-02	1.1996E-01	-125.381
464	93	0.0000	-0.3443	-0.0048	0.13773	-6.9066E-02	-9.5197E-02	1.1761E-01	-125.961
465	93	0.0000	-0.4820	-0.0048	0.13773	-5.8793E-02	-8.9150E-02	1.0679E-01	-123.404
466	93	0.0000	-0.6198	-0.0048	0.13773	-2.8268E-02	-5.5878E-02	6.2621E-02	-116.834
467	94	0.0036	-0.0688	-0.0048	0.13773	-6.6947E-02	-9.9943E-02	1.2029E-01	-123.816
468	94	0.0109	-0.2063	-0.0048	0.13773	-6.9396E-02	-9.7720E-02	1.1985E-01	-125.381
469	94	0.0181	-0.3438	-0.0048	0.13773	-6.8995E-02	-9.5118E-02	1.1751E-01	-125.956
470	94	0.0253	-0.4814	-0.0048	0.13773	-5.8730E-02	-8.9077E-02	1.0670E-01	-123.397
471	94	0.0326	-0.6189	-0.0048	0.13773	-2.8239E-02	-5.5832E-02	6.2567E-02	-116.830
472	95	0.0072	-0.0685	-0.0048	0.13772	-6.6873E-02	-9.9809E-02	1.2014E-01	-123.822
473	95	0.0216	-0.2054	-0.0048	0.13772	-6.9301E-02	-9.7602E-02	1.1970E-01	-125.376
474	95	0.0360	-0.3424	-0.0048	0.13772	-6.8880E-02	-9.5010E-02	1.1735E-01	-125.941
475	95	0.0504	-0.4794	-0.0048	0.13772	-5.8619E-02	-8.8969E-02	1.0654E-01	-123.380
476	95	0.0648	-0.6163	-0.0048	0.13772	-2.8183E-02	-5.5752E-02	6.2471E-02	-116.817
477	96	0.0108	-0.0680	-0.0048	0.13771	-6.6923E-02	-9.9909E-02	1.2025E-01	-123.816
478	96	0.0323	-0.2040	-0.0048	0.13771	-6.9333E-02	-9.7696E-02	1.1980E-01	-125.363
479	96	0.0538	-0.3400	-0.0048	0.13771	-6.8879E-02	-9.5087E-02	1.1741E-01	-125.919
480	96	0.0753	-0.4761	-0.0048	0.13771	-5.8581E-02	-8.9002E-02	1.0655E-01	-123.353
481	96	0.0968	-0.6121	-0.0048	0.13771	-2.8143E-02	-5.5728E-02	6.2431E-02	-116.794
482	97	0.0143	-0.0674	-0.0048	0.13775	-6.6984E-02	-9.9995E-02	1.2036E-01	-123.817
483	97	0.0429	-0.2021	-0.0048	0.13775	-6.9468E-02	-9.7762E-02	1.1993E-01	-125.397
484	97	0.0716	-0.3369	-0.0048	0.13775	-6.9113E-02	-9.5164E-02	1.1761E-01	-125.989
485	97	0.1002	-0.4716	-0.0048	0.13775	-5.8872E-02	-8.9159E-02	1.0684E-01	-123.437
486	97	0.1288	-0.6064	-0.0048	0.13775	-2.8327E-02	-5.5927E-02	6.2692E-02	-116.862
487	98	0.0178	-0.0665	-0.0048	0.13773	-6.7004E-02	-1.0003E-01	1.2040E-01	-123.816
488	98	0.0535	-0.1995	-0.0048	0.13773	-6.9454E-02	-9.7803E-02	1.1996E-01	-125.380
489	98	0.0892	-0.3326	-0.0048	0.13773	-6.9043E-02	-9.5195E-02	1.1760E-01	-125.952
490	98	0.1248	-0.4656	-0.0048	0.13773	-5.8755E-02	-8.9137E-02	1.0676E-01	-123.391
491	98	0.1605	-0.5986	-0.0048	0.13773	-2.8240E-02	-5.5849E-02	6.2583E-02	-116.823
492	99	0.0213	-0.0655	-0.0048	0.13775	-6.6939E-02	-9.9905E-02	1.2026E-01	-123.823
493	99	0.0639	-0.1965	-0.0048	0.13775	-6.9403E-02	-9.7686E-02	1.1983E-01	-125.393
494	99	0.1065	-0.3275	-0.0048	0.13775	-6.9022E-02	-9.5096E-02	1.1750E-01	-125.973
495	99	0.1491	-0.4585	-0.0048	0.13775	-5.8773E-02	-8.9082E-02	1.0672E-01	-123.415
496	99	0.1916	-0.5895	-0.0048	0.13775	-2.8269E-02	-5.5856E-02	6.2602E-02	-116.844
497	100	0.0247	-0.0643	-0.0048	0.13774	-6.6934E-02	-9.9902E-02	1.2025E-01	-123.822
498	100	0.0741	-0.1929	-0.0048	0.13774	-6.9396E-02	-9.7682E-02	1.1982E-01	-125.391
499	100	0.1234	-0.3215	-0.0048	0.13774	-6.9016E-02	-9.5091E-02	1.1750E-01	-125.972
500	100	0.1728	-0.4501	-0.0048	0.13774	-5.8768E-02	-8.9077E-02	1.0672E-01	-123.415
501	100	0.2222	-0.5786	-0.0048	0.13774	-2.8268E-02	-5.5855E-02	6.2601E-02	-116.843
502	101	0.0280	-0.0629	-0.0048	0.13772	-6.6912E-02	-9.9893E-02	1.2023E-01	-123.816
503	101	0.0841	-0.1887	-0.0048	0.13772	-6.9343E-02	-9.7675E-02	1.1979E-01	-125.372
504	101	0.1401	-0.3145	-0.0048	0.13772	-6.8919E-02	-9.5071E-02	1.1742E-01	-125.939
505	101	0.1962	-0.4403	-0.0048	0.13772	-5.8646E-02	-8.9016E-02	1.0660E-01	-123.378
506	101	0.2522	-0.5661	-0.0048	0.13772	-2.8191E-02	-5.5774E-02	6.2493E-02	-116.814
507	102	0.0313	-0.0613	-0.0048	0.13770	-6.6902E-02	-9.9895E-02	1.2023E-01	-123.811
508	102	0.0938	-0.1840	-0.0048	0.13770	-6.9312E-02	-9.7678E-02	1.1977E-01	-125.359
509	102	0.1563	-0.3067	-0.0048	0.13770	-6.8860E-02	-9.5064E-02	1.1738E-01	-125.918
510	102	0.2188	-0.4294	-0.0048	0.13770	-5.8567E-02	-8.8980E-02	1.0653E-01	-123.353
511	102	0.2813	-0.5521	-0.0048	0.13770	-2.8140E-02	-5.5721E-02	6.2424E-02	-116.794
512	103	0.0344	-0.0596	-0.0048	0.13771	-6.6906E-02	-9.9888E-02	1.2023E-01	-123.815
513	103	0.1033	-0.1789	-0.0048	0.13771	-6.9338E-02	-9.7669E-02	1.1978E-01	-125.372
514	103	0.1722	-0.2981	-0.0048	0.13771	-6.8917E-02	-9.5064E-02	1.1742E-01	-125.940
515	103	0.2410	-0.4174	-0.0048	0.13771	-5.8647E-02	-8.9011E-02	1.0659E-01	-123.380
516	103	0.3099	-0.5367	-0.0048	0.13771	-2.8193E-02	-5.5775E-02	6.2496E-02	-116.816
517	104	0.0375	-0.0578	-0.0048	0.13774	-6.6863E-02	-9.9787E-02	1.2012E-01	-123.824
518	104	0.1125	-0.1733	-0.0048	0.13774	-6.9310E-02	-9.7577E-02	1.1969E-01	-125.387
519	104	0.1876	-0.2888	-0.0048	0.13774	-6.8919E-02	-9.4993E-02	1.1736E-01	-125.961
520	104	0.2626	-0.4043	-0.0048	0.13774	-5.8679E-02	-8.8981E-02	1.0659E-01	-123.403
521	104	0.3376	-0.5198	-0.0048	0.13774	-2.8225E-02	-5.5792E-02	6.2525E-02	-116.835
522	105	0.0405	-0.0557	-0.0048	0.13773	-6.6952E-02	-9.9955E-02	1.2031E-01	-123.815
523	105	0.1214	-0.1672	-0.0048	0.13773	-6.9410E-02	-9.7727E-02	1.1987E-01	-125.384
524	105	0.2023	-0.2786	-0.0048	0.13773	-6.9016E-02	-9.5124E-02	1.1752E-01	-125.962
525	105	0.2832	-0.3901	-0.0048	0.13773	-5.8753E-02	-8.9090E-02	1.0672E-01	-123.404
526	105	0.3642	-0.5015	-0.0048	0.13773	-2.8252E-02	-5.5847E-02	6.2587E-02	-116.834

527	106	0.0433	-0.0535	-0.0048	0.13772	-6.6964E-02	-9.9970E-02	1.2033E-01	-123.816
528	106	0.1300	-0.1605	-0.0048	0.13772	-6.9407E-02	-9.7747E-02	1.1988E-01	-125.377
529	106	0.2167	-0.2675	-0.0048	0.13772	-6.8993E-02	-9.5142E-02	1.1752E-01	-125.948
530	106	0.3034	-0.3745	-0.0048	0.13772	-5.8712E-02	-8.9088E-02	1.0669E-01	-123.386
531	106	0.3901	-0.4815	-0.0048	0.13772	-2.8222E-02	-5.5822E-02	6.2550E-02	-116.820
532	107	0.0461	-0.0512	-0.0048	0.13775	-6.6882E-02	-9.9820E-02	1.2016E-01	-123.823
533	107	0.1382	-0.1536	-0.0048	0.13775	-6.9344E-02	-9.7603E-02	1.1973E-01	-125.392
534	107	0.2304	-0.2559	-0.0048	0.13775	-6.8976E-02	-9.5016E-02	1.1741E-01	-125.977
535	107	0.3226	-0.3583	-0.0048	0.13775	-5.8754E-02	-8.9016E-02	1.0666E-01	-123.426
536	107	0.4147	-0.4607	-0.0048	0.13775	-2.8270E-02	-5.5836E-02	6.2584E-02	-116.853
537	108	0.0487	-0.0487	-0.0048	0.13769	-6.6981E-02	-1.0004E-01	1.2039E-01	-123.805
538	108	0.1460	-0.1460	-0.0048	0.13769	-6.9393E-02	-9.7811E-02	1.1993E-01	-125.354
539	108	0.2434	-0.2434	-0.0048	0.13769	-6.8922E-02	-9.5184E-02	1.1752E-01	-125.908
540	108	0.3408	-0.3408	-0.0048	0.13769	-5.8593E-02	-8.9069E-02	1.0661E-01	-123.339
541	108	0.4381	-0.4381	-0.0048	0.13769	-2.8135E-02	-5.5744E-02	6.2442E-02	-116.781
542	109	0.0512	-0.0461	-0.0048	0.13775	-6.6882E-02	-9.9820E-02	1.2016E-01	-123.823
543	109	0.1536	-0.1382	-0.0048	0.13775	-6.9344E-02	-9.7603E-02	1.1973E-01	-125.392
544	109	0.2559	-0.2304	-0.0048	0.13775	-6.8976E-02	-9.5016E-02	1.1741E-01	-125.977
545	109	0.3583	-0.3226	-0.0048	0.13775	-5.8754E-02	-8.9016E-02	1.0666E-01	-123.426
546	109	0.4607	-0.4147	-0.0048	0.13775	-2.8270E-02	-5.5836E-02	6.2584E-02	-116.853
547	110	0.0535	-0.0433	-0.0048	0.13772	-6.6964E-02	-9.9970E-02	1.2033E-01	-123.816
548	110	0.1605	-0.1300	-0.0048	0.13772	-6.9407E-02	-9.7747E-02	1.1988E-01	-125.377
549	110	0.2675	-0.2167	-0.0048	0.13772	-6.8993E-02	-9.5142E-02	1.1752E-01	-125.948
550	110	0.3745	-0.3034	-0.0048	0.13772	-5.8712E-02	-8.9088E-02	1.0669E-01	-123.386
551	110	0.4815	-0.3901	-0.0048	0.13772	-2.8222E-02	-5.5822E-02	6.2550E-02	-116.820
552	111	0.0557	-0.0405	-0.0048	0.13773	-6.6952E-02	-9.9955E-02	1.2031E-01	-123.815
553	111	0.1672	-0.1214	-0.0048	0.13773	-6.9410E-02	-9.7727E-02	1.1987E-01	-125.384
554	111	0.2786	-0.2023	-0.0048	0.13773	-6.9016E-02	-9.5124E-02	1.1752E-01	-125.962
555	111	0.3901	-0.2832	-0.0048	0.13773	-5.8753E-02	-8.9090E-02	1.0672E-01	-123.404
556	111	0.5015	-0.3642	-0.0048	0.13773	-2.8252E-02	-5.5847E-02	6.2587E-02	-116.834
557	112	0.0578	-0.0375	-0.0048	0.13774	-6.6863E-02	-9.9787E-02	1.2012E-01	-123.824
558	112	0.1733	-0.1125	-0.0048	0.13774	-6.9310E-02	-9.7577E-02	1.1969E-01	-125.387
559	112	0.2888	-0.1876	-0.0048	0.13774	-6.8919E-02	-9.4993E-02	1.1736E-01	-125.961
560	112	0.4043	-0.2626	-0.0048	0.13774	-5.8679E-02	-8.8981E-02	1.0659E-01	-123.403
561	112	0.5198	-0.3376	-0.0048	0.13774	-2.8225E-02	-5.5792E-02	6.2525E-02	-116.835
562	113	0.0596	-0.0344	-0.0048	0.13771	-6.6906E-02	-9.9888E-02	1.2023E-01	-123.815
563	113	0.1789	-0.1033	-0.0048	0.13771	-6.9338E-02	-9.7669E-02	1.1978E-01	-125.372
564	113	0.2981	-0.1722	-0.0048	0.13771	-6.8917E-02	-9.5064E-02	1.1742E-01	-125.940
565	113	0.4174	-0.2410	-0.0048	0.13771	-5.8647E-02	-8.9011E-02	1.0659E-01	-123.380
566	113	0.5367	-0.3099	-0.0048	0.13771	-2.8193E-02	-5.5775E-02	6.2496E-02	-116.816
567	114	0.0613	-0.0313	-0.0048	0.13770	-6.6902E-02	-9.9895E-02	1.2023E-01	-123.811
568	114	0.1840	-0.0938	-0.0048	0.13770	-6.9312E-02	-9.7678E-02	1.1977E-01	-125.359
569	114	0.3067	-0.1563	-0.0048	0.13770	-6.8860E-02	-9.5064E-02	1.1738E-01	-125.918
570	114	0.4294	-0.2188	-0.0048	0.13770	-5.8567E-02	-8.8980E-02	1.0653E-01	-123.353
571	114	0.5521	-0.2813	-0.0048	0.13770	-2.8140E-02	-5.5721E-02	6.2424E-02	-116.794
572	115	0.0629	-0.0280	-0.0048	0.13772	-6.6912E-02	-9.9893E-02	1.2023E-01	-123.816
573	115	0.1887	-0.0841	-0.0048	0.13772	-6.9343E-02	-9.7675E-02	1.1979E-01	-125.372
574	115	0.3145	-0.1401	-0.0048	0.13772	-6.8919E-02	-9.5071E-02	1.1742E-01	-125.939
575	115	0.4403	-0.1962	-0.0048	0.13772	-5.8646E-02	-8.9016E-02	1.0660E-01	-123.378
576	115	0.5661	-0.2522	-0.0048	0.13772	-2.8191E-02	-5.5774E-02	6.2493E-02	-116.814
577	116	0.0643	-0.0247	-0.0048	0.13774	-6.6934E-02	-9.9902E-02	1.2025E-01	-123.822
578	116	0.1929	-0.0741	-0.0048	0.13774	-6.9396E-02	-9.7682E-02	1.1982E-01	-125.391
579	116	0.3215	-0.1234	-0.0048	0.13774	-6.9016E-02	-9.5091E-02	1.1750E-01	-125.972
580	116	0.4501	-0.1728	-0.0048	0.13774	-5.8768E-02	-8.9077E-02	1.0672E-01	-123.415
581	116	0.5786	-0.2222	-0.0048	0.13774	-2.8268E-02	-5.5855E-02	6.2601E-02	-116.843
582	117	0.0655	-0.0213	-0.0048	0.13775	-6.6939E-02	-9.9905E-02	1.2026E-01	-123.823
583	117	0.1965	-0.0639	-0.0048	0.13775	-6.9403E-02	-9.7686E-02	1.1983E-01	-125.393
584	117	0.3275	-0.1065	-0.0048	0.13775	-6.9022E-02	-9.5096E-02	1.1750E-01	-125.973
585	117	0.4585	-0.1491	-0.0048	0.13775	-5.8773E-02	-8.9082E-02	1.0672E-01	-123.415
586	117	0.5895	-0.1916	-0.0048	0.13775	-2.8269E-02	-5.5856E-02	6.2602E-02	-116.844
587	118	0.0665	-0.0178	-0.0048	0.13773	-6.7004E-02	-1.0003E-01	1.2040E-01	-123.816
588	118	0.1995	-0.0535	-0.0048	0.13773	-6.9454E-02	-9.7803E-02	1.1996E-01	-125.380
589	118	0.3326	-0.0892	-0.0048	0.13773	-6.9043E-02	-9.5195E-02	1.1760E-01	-125.952
590	118	0.4656	-0.1248	-0.0048	0.13773	-5.8755E-02	-8.9137E-02	1.0676E-01	-123.391
591	118	0.5986	-0.1605	-0.0048	0.13773	-2.8240E-02	-5.5849E-02	6.2583E-02	-116.823
592	119	0.0674	-0.0143	-0.0048	0.13775	-6.6984E-02	-9.9995E-02	1.2036E-01	-123.817
593	119	0.2021	-0.0429	-0.0048	0.13775	-6.9468E-02	-9.7762E-02	1.1993E-01	-125.397
594	119	0.3369	-0.0716	-0.0048	0.13775	-6.9113E-02	-9.5164E-02	1.1761E-01	-125.989
595	119	0.4716	-0.1002	-0.0048	0.13775	-5.8872E-02	-8.9159E-02	1.0684E-01	-123.437
596	119	0.6064	-0.1288	-0.0048	0.13775	-2.8327E-02	-5.5927E-02	6.2692E-02	-116.862

597 120 0.0680 -0.0108 -0.0048 0.13771 -6.6923E-02 -9.9909E-02 1.2025E-01 -123.816
598 120 0.2040 -0.0323 -0.0048 0.13771 -6.9333E-02 -9.7696E-02 1.1980E-01 -125.363
599 120 0.3400 -0.0538 -0.0048 0.13771 -6.8879E-02 -9.5087E-02 1.1741E-01 -125.919
600 120 0.4761 -0.0753 -0.0048 0.13771 -5.8581E-02 -8.9002E-02 1.0655E-01 -123.353
601 120 0.6121 -0.0968 -0.0048 0.13771 -2.8143E-02 -5.5728E-02 6.2431E-02 -116.794
602 121 0.0685 -0.0072 -0.0048 0.13772 -6.6873E-02 -9.9809E-02 1.2014E-01 -123.822
603 121 0.2054 -0.0216 -0.0048 0.13772 -6.9301E-02 -9.7602E-02 1.1970E-01 -125.376
604 121 0.3424 -0.0360 -0.0048 0.13772 -6.8880E-02 -9.5010E-02 1.1735E-01 -125.941
605 121 0.4794 -0.0504 -0.0048 0.13772 -5.8619E-02 -8.8969E-02 1.0654E-01 -123.380
606 121 0.6163 -0.0648 -0.0048 0.13772 -2.8183E-02 -5.5752E-02 6.2471E-02 -116.817
607 122 0.0688 -0.0036 -0.0048 0.13773 -6.6947E-02 -9.9943E-02 1.2029E-01 -123.816
608 122 0.2063 -0.0109 -0.0048 0.13773 -6.9396E-02 -9.7720E-02 1.1985E-01 -125.381
609 122 0.3438 -0.0181 -0.0048 0.13773 -6.8995E-02 -9.5118E-02 1.1751E-01 -125.956
610 122 0.4814 -0.0253 -0.0048 0.13773 -5.8730E-02 -8.9077E-02 1.0670E-01 -123.397
611 122 0.6189 -0.0326 -0.0048 0.13773 -2.8239E-02 -5.5832E-02 6.2567E-02 -116.830

- - - POWER BUDGET - - -

INPUT POWER = 3.9633E+03 WATTS
RADIATED POWER= 3.8590E+03 WATTS
WIRE LOSS = 1.0424E+02 WATTS
EFFICIENCY = 97.37 PERCENT

- - - NEAR ELECTRIC FIELDS - - -

- LOCATION -			- EX -		- EY -		- EZ -		- PEAK FLD -
X	Y	Z	MAGNITUDE	PHASE	MAGNITUDE	PHASE	MAGNITUDE	PHASE	MAGNITUDE
METERS	METERS	METERS	VOLTS/M	DEGREES	VOLTS/M	DEGREES	VOLTS/M	DEGREES	VOLTS/M
1000.000000	0.000000	0.100000	8.0992E-02	-65.89	9.5101E-08	113.89	6.4286E-01	-103.54	6.4607E-01

***** INPUT LINE 127 EN 0 0 0 0 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00

RUN TIME = 5.730